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JONATHAN · DWIGHT · JR



















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THE MUSEUM  
OF  
NATURAL HISTORY

BEING A POPULAR ACCOUNT OF THE  
STRUCTURE, HABITS, AND CLASSIFICATION OF THE VARIOUS DEPARTMENTS OF

THE ANIMAL KINGDOM

Quadrupeds, Birds, Reptiles, Fishes, Shells, and Insects

INCLUDING THE INSECTS DESTRUCTIVE TO AGRICULTURE.

BY

SIR JOHN RICHARDSON, C.B., F.R.S. LOND., HON. F.R.S. EDIN.  
Author of the Fauna Boreali Americana; Arctic Search after Sir John Franklin.

WILLIAM S. DALLAS, F.L.S., AND T. SPENCER COBBOLD, M.D., F.L.S.

ASSISTED BY

WILLIAM BAIRD, M.D., F.L.S., AND ADAM WHITE, Esq.  
CURATORS IN THE ZOOLOGICAL DEPARTMENT OF THE BRITISH MUSEUM.

WITH A

HISTORY OF THE AMERICAN FAUNA

BY

JOSEPH B. HOLDER, M.D.

FELLOW OF THE NEW YORK ACADEMY OF SCIENCES, ETC.; ASSISTANT SUPERINTENDENT  
AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK.

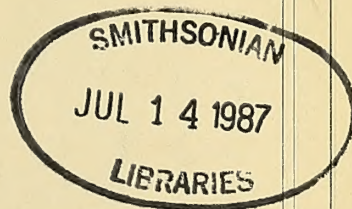
VOL. IV.

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# MAMMALIA.

PLATE I.

Order. Quadrumana.

Genera. Troglodytes, Simia, Nasalis.

Family. Simiadae.

3



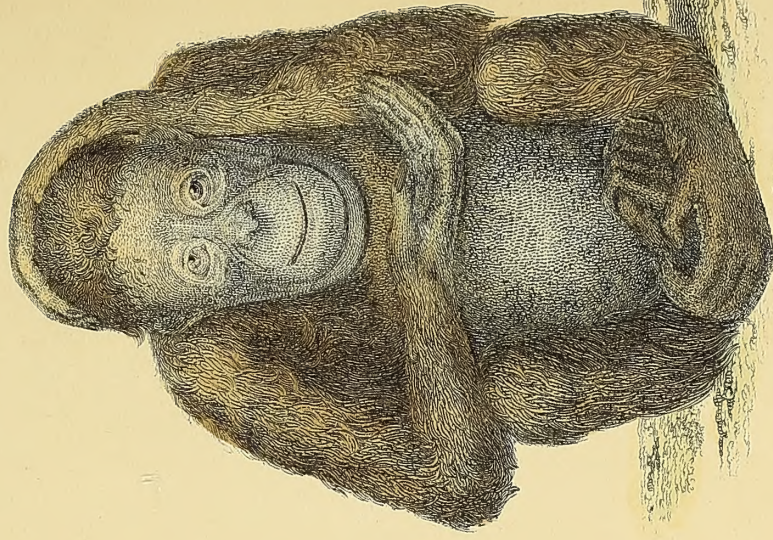
*N. Larvatus. Proboscis Monkey.*

1



*Troglodytes Gorilla. Gorilla.*

2



*Simia Satyrus. Ourang Outan.*



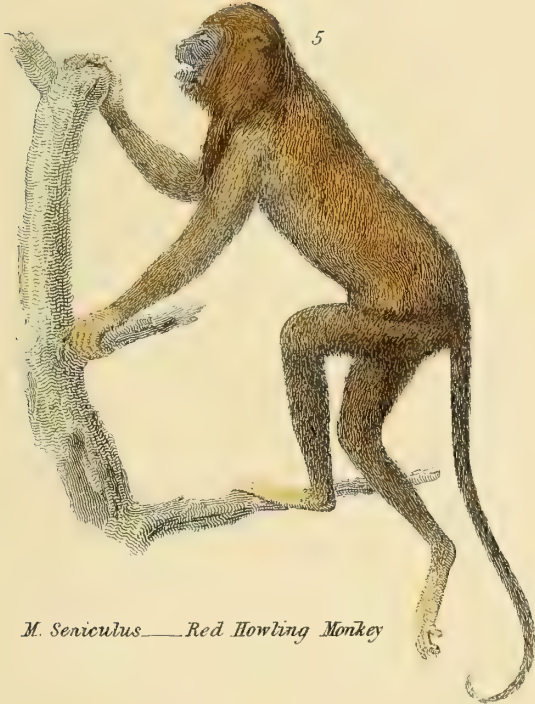




Order Quadrumana.

Genera Papio, Mycetes, Ateles, Cebus.

Families { Simiadae  
Cebidae



*M. Seniculus*—Red Howling Monkey



*P. Mormon*—Mandrill



*A. Fauscus*—Coaita



*C. Fatuellus*—Horned Monkey







Order. Quadrumana.

Genera. Callithrix, Jacchus, Lemur, Indris.

Families }  
 Cebidæ.  
 Haplidæ.  
 Lemuridæ.  
 Lichanotidæ.



*S. Sciureus*.—Squirrel Monkey.



*J. Vulgaris*.—Common Marmoset.



*L. Catta*.—Ring-tailed Lemur.



*J. Brevicaudatus*.—Indri.



*J. Rosalia*.—Marikina.







# MAMMALIA.

PLATE 4

Order, Quadrumana.

Genera, Loris, Galago, Tarsius, Galeopithecus

Families, Necticebidæ.  
Tarsiidæ.  
Galeopithecidæ.



*Lor. Gracilis Bengal Lori.*



*Galago Senegalensis. Senegal Galago.*



*T. Spectrum, Tarsier.*



*Galeopithecus Volans, Flying Lemur.*







# MAMMALIA.

Order. Chiroptera.

Genera. Pteropus, Phyllostoma, Molossus.

PLATE. 5.

Families {  
Pteropidae.  
Phyllostomidae.  
Vespertilionidae.



*P. Spectrum. — Vampire Bat.*



*Ptero. Fidulis. Kalong Bat.*



*M. Velox. — Swift-Flying Thick-tipped Bat.*





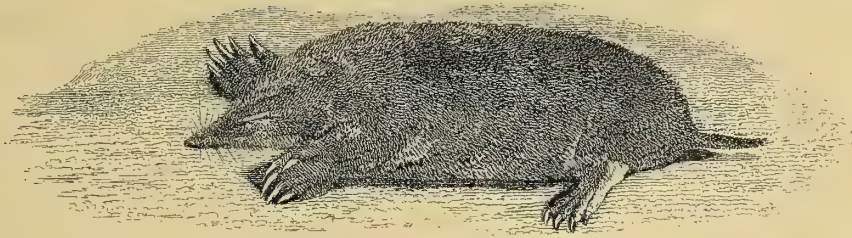


Orders { Insectivora.  
Carnivora.

Genera. Erinaceus. Sorex. Talpa. Canis.

Families { Erinaceadæ.  
Soricidæ.  
Talpidæ.  
Canidæ.

22



*T. Europæa.*—Common Mole.

20



*E. Europæus.*—Common Hedgehog.

27



*S. Araneus.*—Common Shrew.

23



*Canis lupus.* (Var. Familiaris) —Thibet Dog.





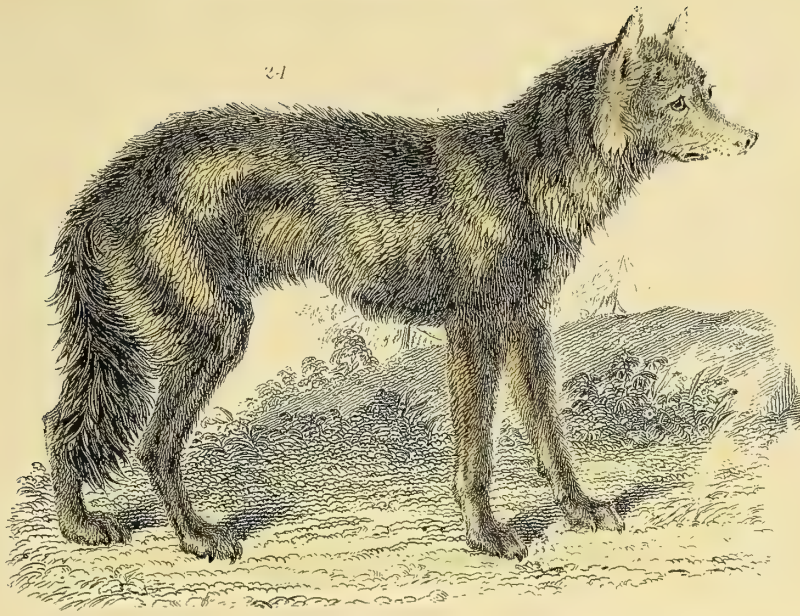


Order. Carnivora.

Genera. Canis Megalotis Vulpes

Family. Canidae.

24



*C. Lupus. Wolf.*

25



*M. Zerda Fennec.*

26



*V. Vulgaris. Common Fox*







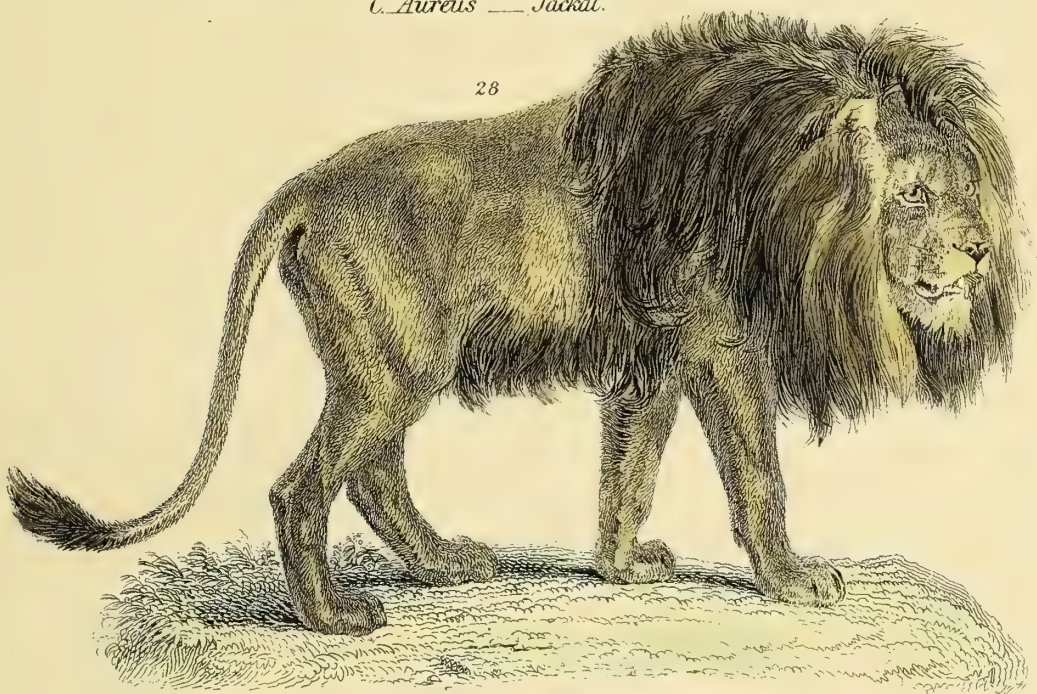
Order, Carnivora.

Genera, Canis, Felis.

Families { Canidæ.  
Felidæ.



*C. Aureus* — Jackal.



*F. Leo. Lion.*



*F. Tigris. Tiger.*







Order Carnivora

Genera Ilyæna, Viverra, Herpestes.

Families { Hyænidæ  
Viverridæ



*H. Striata* — Striped Hyæna



*V. Civetta* — African Civet



*H. Ichneumon* — Egyptian Ichneumon







Order, Carnivora.

Genera, Mephitis, Martes, Lutra.

Family, Mustelidæ.

33



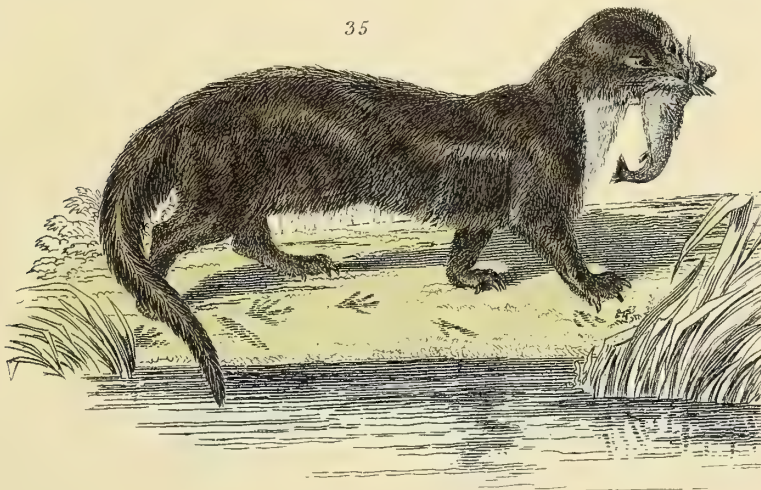
*Mephitis americana*.—Skunk.

34



*Martes abietum*.—Pine Martin.

35



*Lutra Vulgaris*.—Otter.







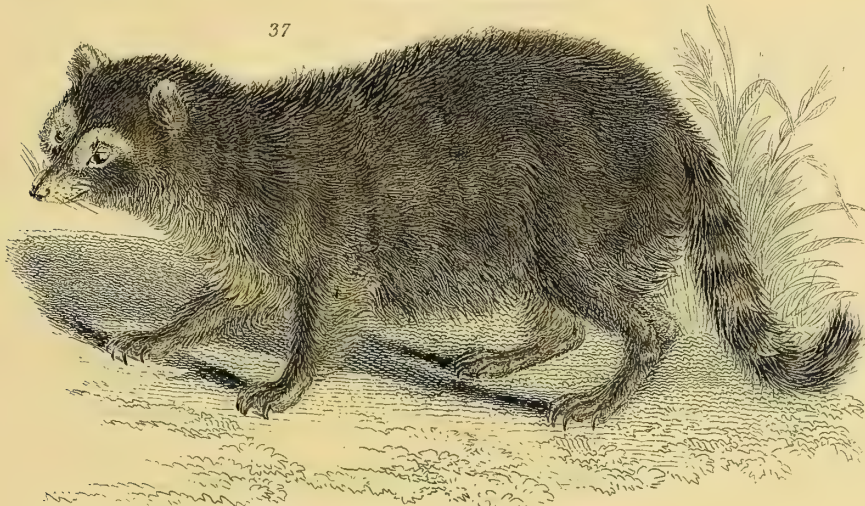
Order, Carnivora.

Genera, Gulo. Procyon. Nasua.

Families { Ursidæ.  
Melidæ



*G. Luscus* — Wolverine.



*P. Lotor* — Raccoon.



*N. Narica* — Brown Coatimondi.







Order. Carnivora.

Genera. Ursis.

Family. Ursidæ.

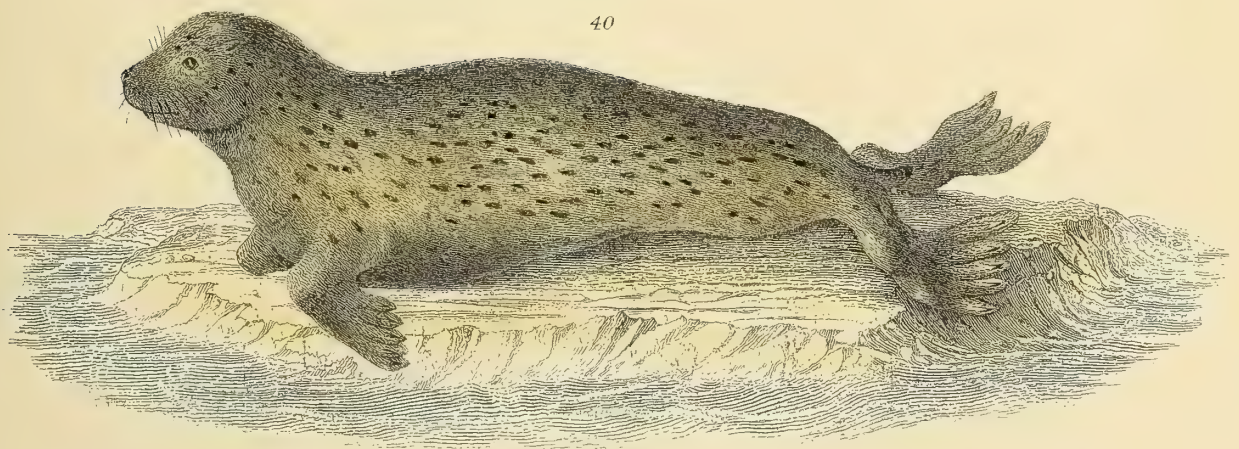


*U. Marinus.* Polar Bear.

Order. Pinnipedia.

Genera. Phoca.

Family. Phocidæ.



*P. Vitulina.* Common Seal.





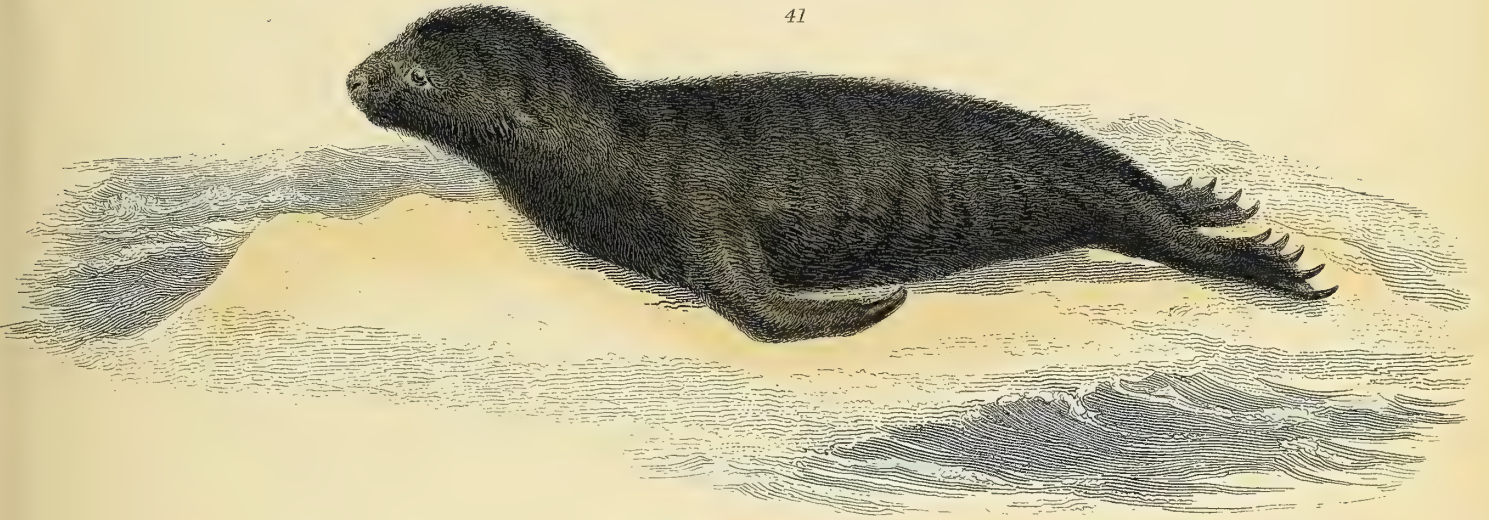


Order. Pinnipedia

Genera. Trichecus, Arctocephalus.

Families { Phocidæ.  
Trichecidæ.

41



*A. Ursinus.* — Sea Bear.

42



*T. Rosinarius.* — Arctic Walrus or Morse.







# MAMMALIA.

PLATE 14.

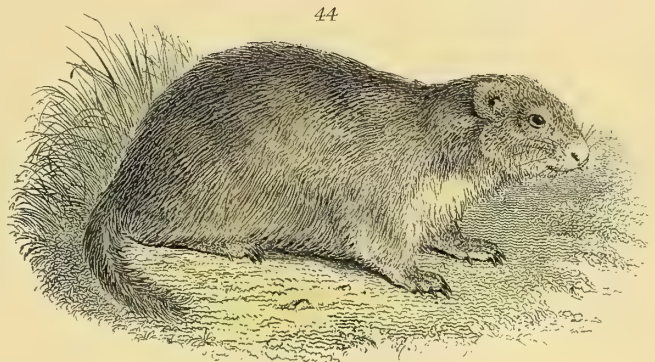
Order. Rodentia.

Genera. Sciuropterus, Arctomys, Dipus, Helamys.

Families { Sciuridæ.  
Dipodidæ.



*S. Sabrinus* — Greater Flying Squirrel.



*A. Marmotta* — Alpine Marmot.



*Hel. Capensis* — Cape Jerboa.



*D. Ægyptius* — Egyptian Jerboa.







# MAMMALIA.

PLATE 15.

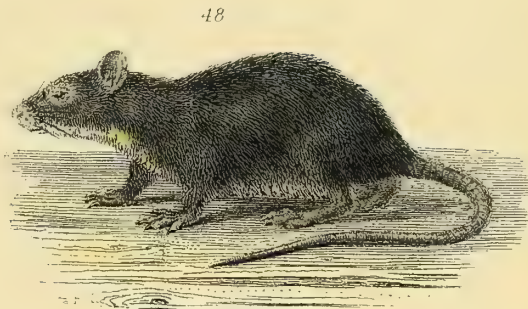
Order, Rodentia.

Genera, Myoxus, Mus, Myodus, Castor.

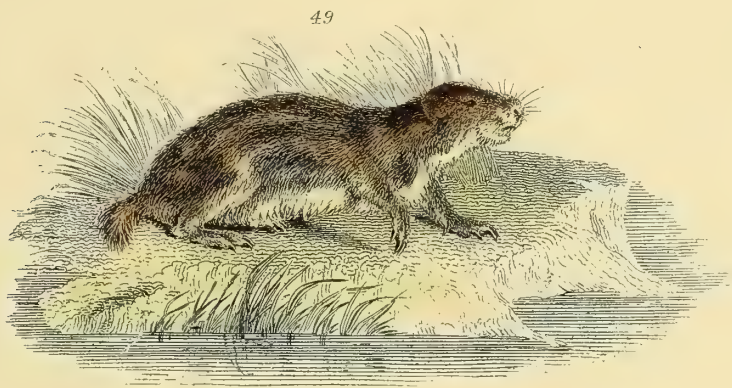
Families  
 { Myoxidæ.  
 Muridæ.  
 Arvicolidæ.  
 Castoridæ.



*My<sup>s</sup> Avellanarius. — Dormouse.*



*Mus. Rattus. — Black Rat*



*Myod<sup>s</sup> Greenlandicus. — Greenland Lemming.*



*C. Fiber. — Common Beaver*







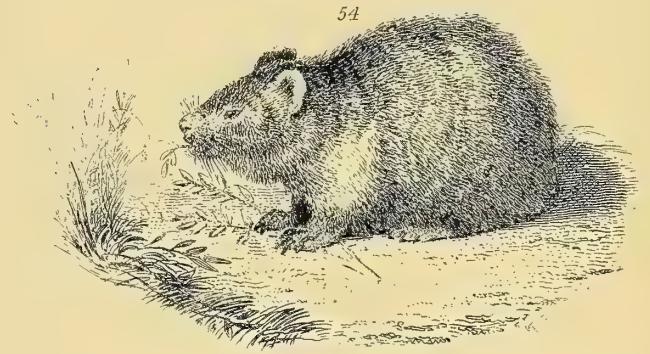
Order, Rodentia.

Genera, Myopotamus, Hystrix, Lepus, Lagomys.

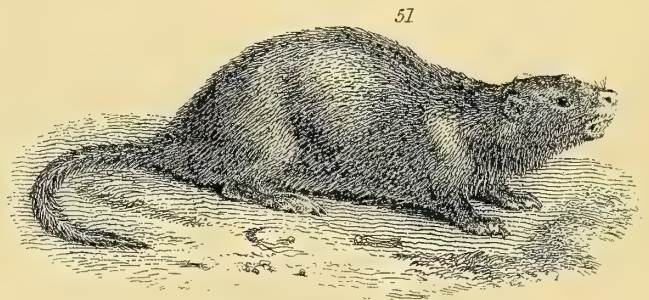
Families { Castoridae.  
Hystrioidae.  
Leporidae.



*Lep. Timidus.*—Common Hare.



*Lag. Pusillus.*—Calling Hare.



*Myopot. Coypus.*—Coypu.



*H. Cristata.*—Common Porcupine.







M A M M A L I A .

Genera Bradypus, Dasypus, Myrmecophaga, Manis.

Order Edentata.

Families  
 { Bradypidæ.  
 Dasypidæ.  
 Myrmecophagidæ.  
 Manidæ.



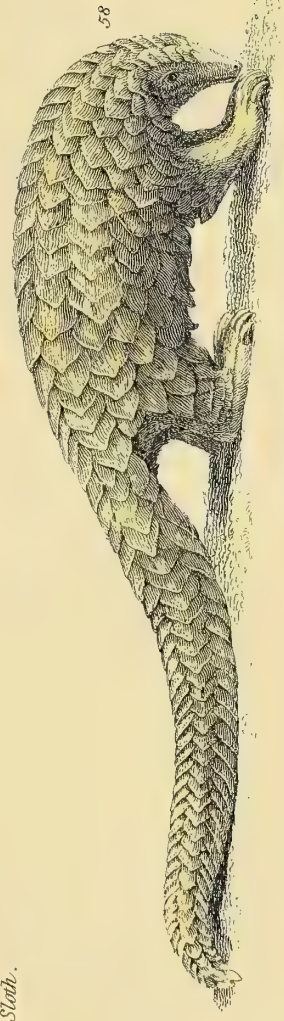
*B. Tridactylus*—Three-toed Sloth.



*D. Peba*—Peba.



*Myr. Jubata*—Great Anteater.



*M. Tetradactyla*—Long-tailed Pangolin.







Order Ruminantia.

Genera Bonassus, Ovis.

Families { Bovidae  
Egagropidae



*B. Americanus*—American Bison.



*O. Ammon*—Thibet Sheep.



*O. Montanus*—Rocky Mountain Sheep







Order. Ruminantia.

Genera, Capra, Catoblepas, Cephalolophus, Antelope.

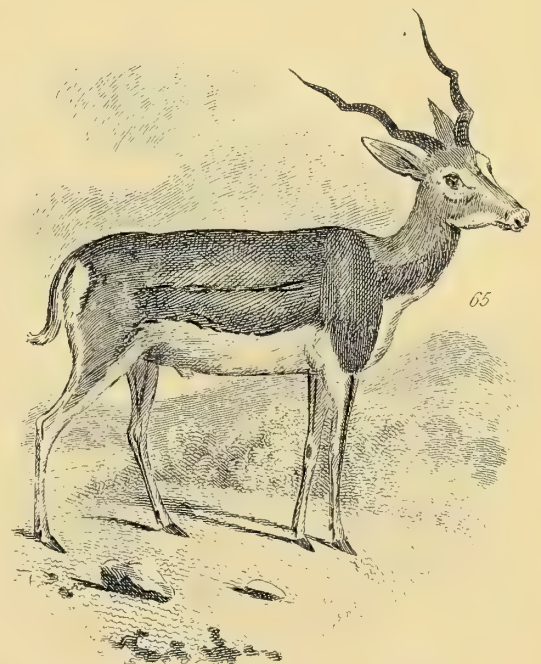
Families { Egosceridæ.  
Antilopidæ.



*C. ibex.* — *Ibex*



*Ceph<sup>s</sup> Pygmaeus*  
*Guevi or Pygmy Antelope.*



*A. Cervicapra* — *Common Antelope.*







Order Ruminantia

Genera Antilope Portex.

Family Antilopidæ .

66



*A. Leucoryx* — *Leucoryx* .

67



*P. picta* — *Nil-Ghau* .







Order. Ruminantia.

Genera. Capræolus. Alces.

Family. Cervidæ.



*Cap<sup>s</sup> Dorcas. — Roe buck.*



*A. Alces — Elk or Moose-Deer.*







Order: Ruminantia.

Genera, Tarandus, Camelopardalis.

Families { Cervidae.  
Camelopardidae.



*T. Rangifer* — Reindeer.



*Cam. Giraffa* — Camel, pygmy

Landseer, del.

J. W. Allan, lith.







Order Ruminantia.

Genera. Camelus, Auchenia, Tragulus.

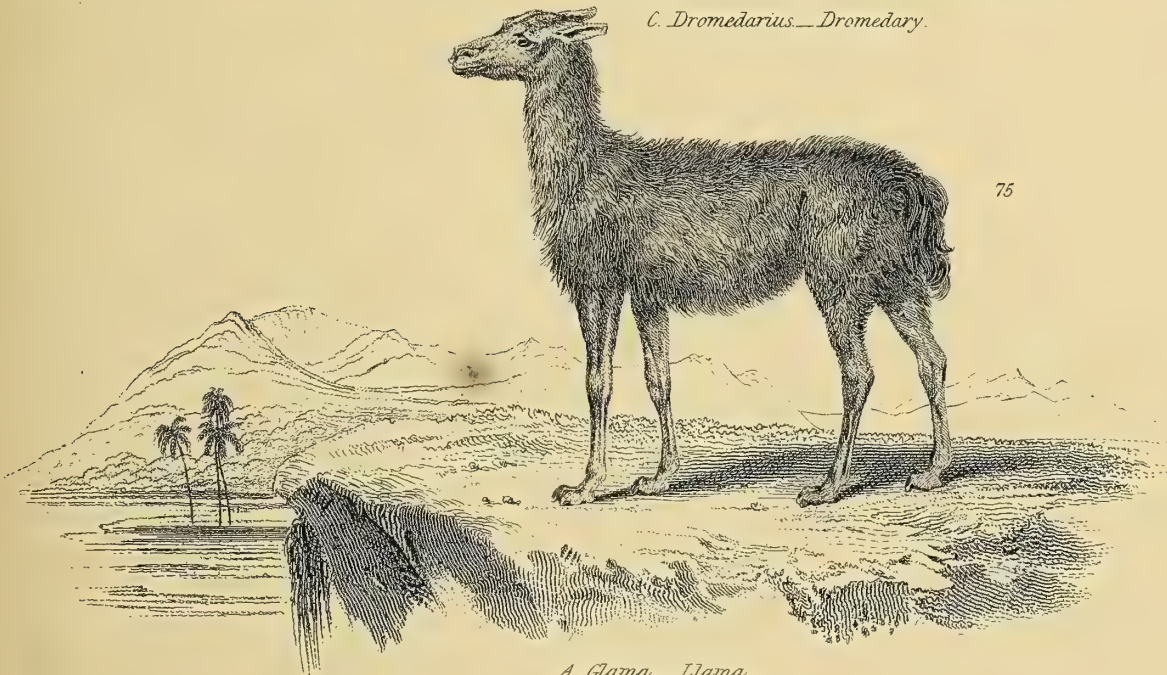
Families { Camelidæ.  
Cervidæ.

74



*C. Dromedarius*—Dromedary.

75



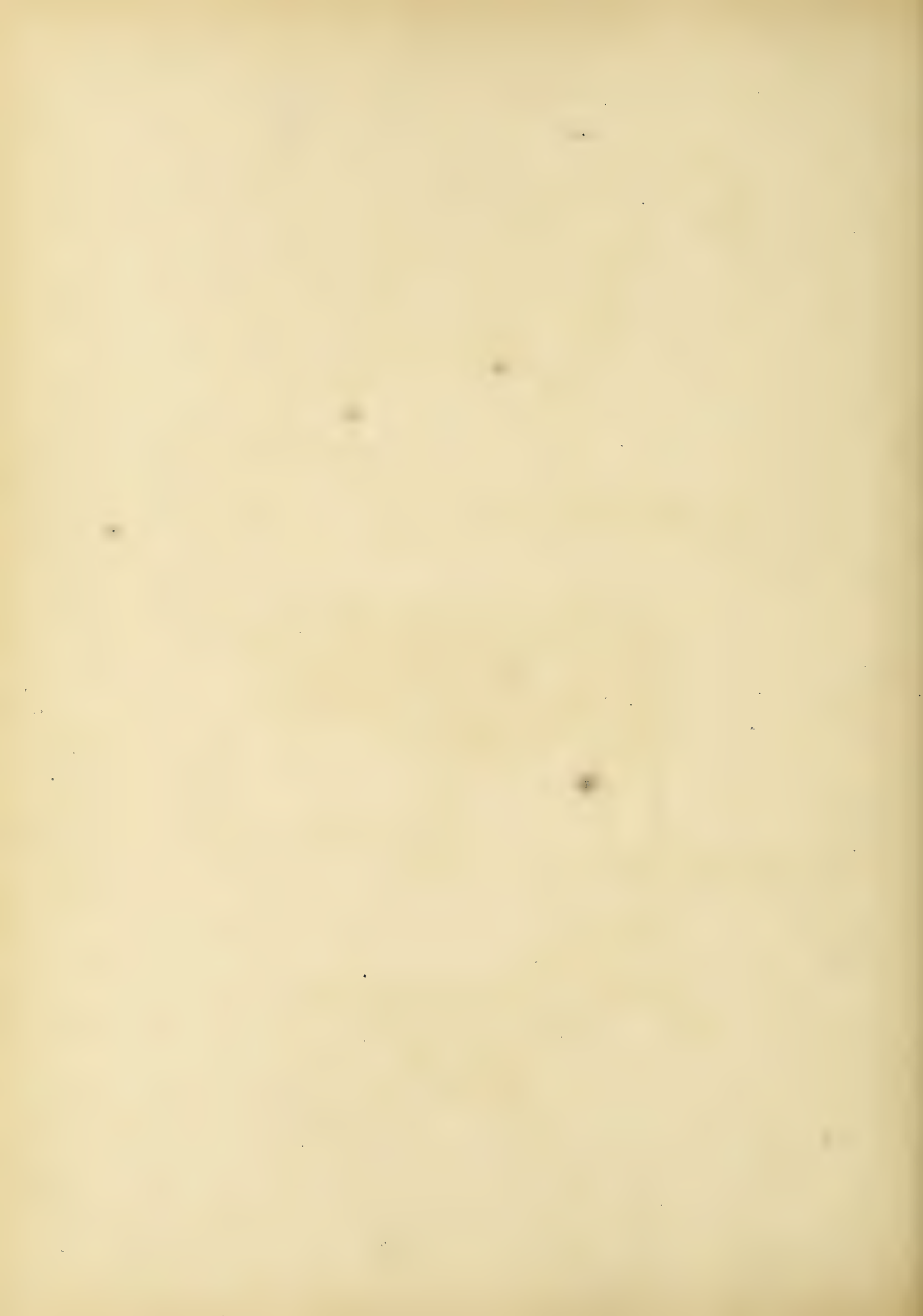
*A. Glama*—Llama.

76



*T. Jayanicus*—Java Musk Deer.





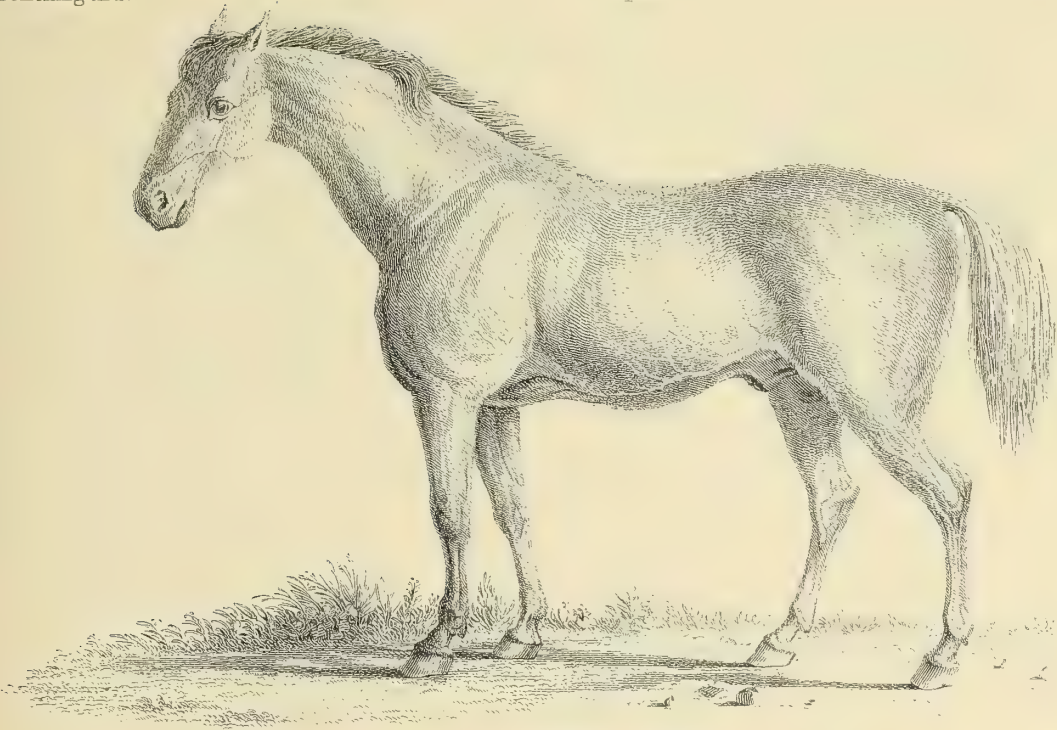


MAMMALIA.

Order. Solidungula.

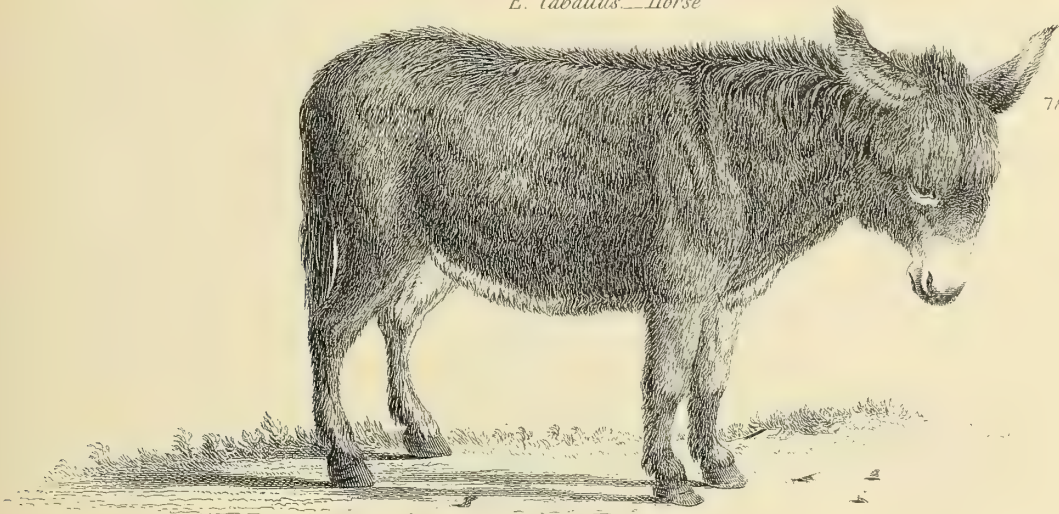
Genus. Equus.

Family. Equidae



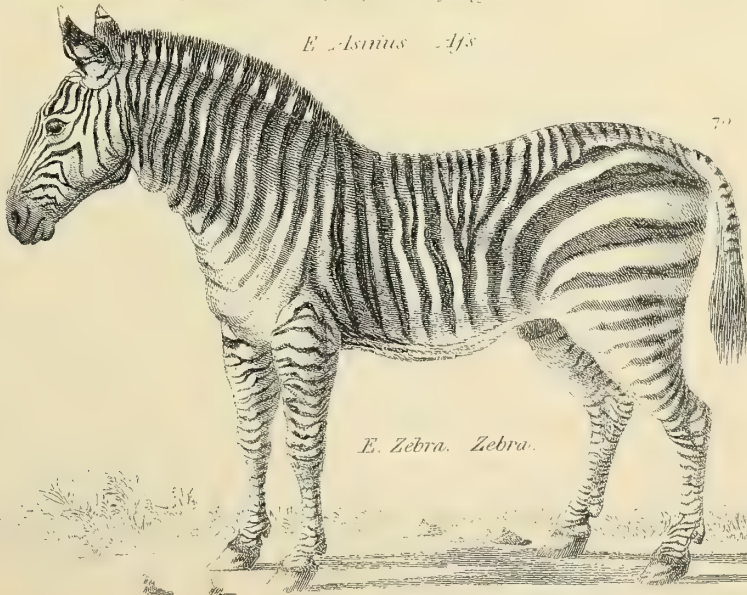
77

*E. Caballus*—Horse



78

*E. Asinus*—Ass



79

*E. Zebra*. Zebra.







Order. Pachydermata.

Genera. Rhinoceros, Hippopotamus, Tapirus.

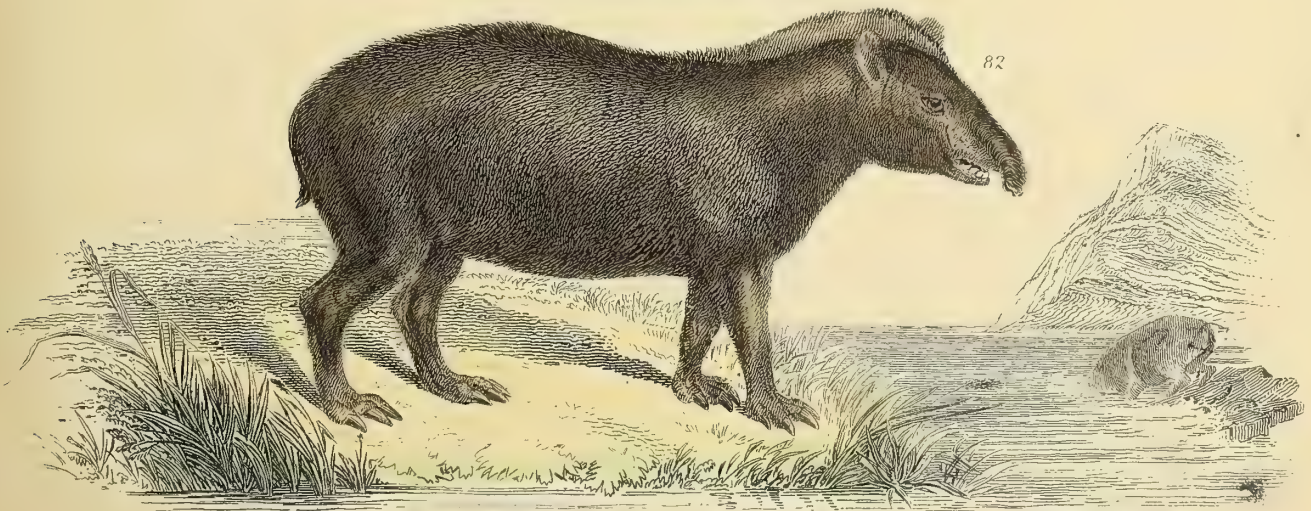
Families { Rhinocerotidæ.  
Hippopotamidæ.  
Tapiridæ.



*Rhinoceros Indicus* — Indian Rhinoceros



*Hippopotamus amphibius*.—Hippopotamus.



*Tapirus Americanus*.—American Tapir.





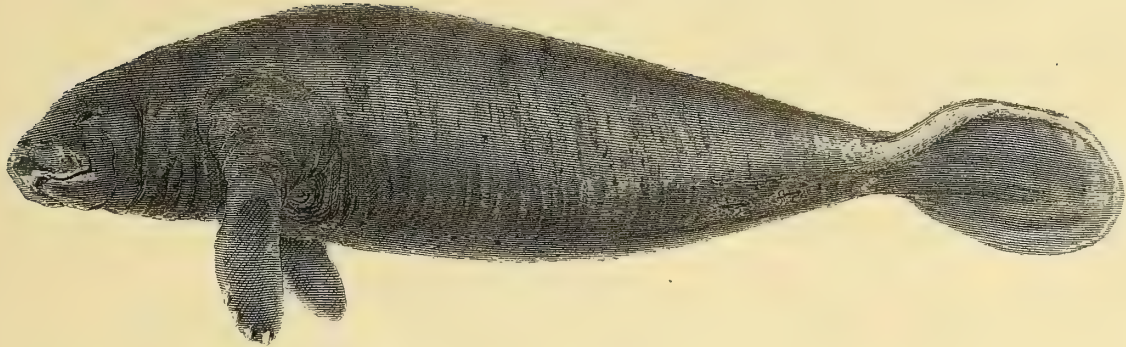


Order. Cetacea.

Genera. Manatus, Halicore, Rhytina.

Family. Manatiæ.

84



*M. Australis*. — Manatee.

85



*H. Dugong*. — Indian Dugong.

86



*R. Stelleri*. — Steller's Rhytina.

Landseer. del.

J. N. Allan. Lith.







M A M M A L I A .

PLATE 27.

Order. Cetacea.

Genus, Monodon, Physter.

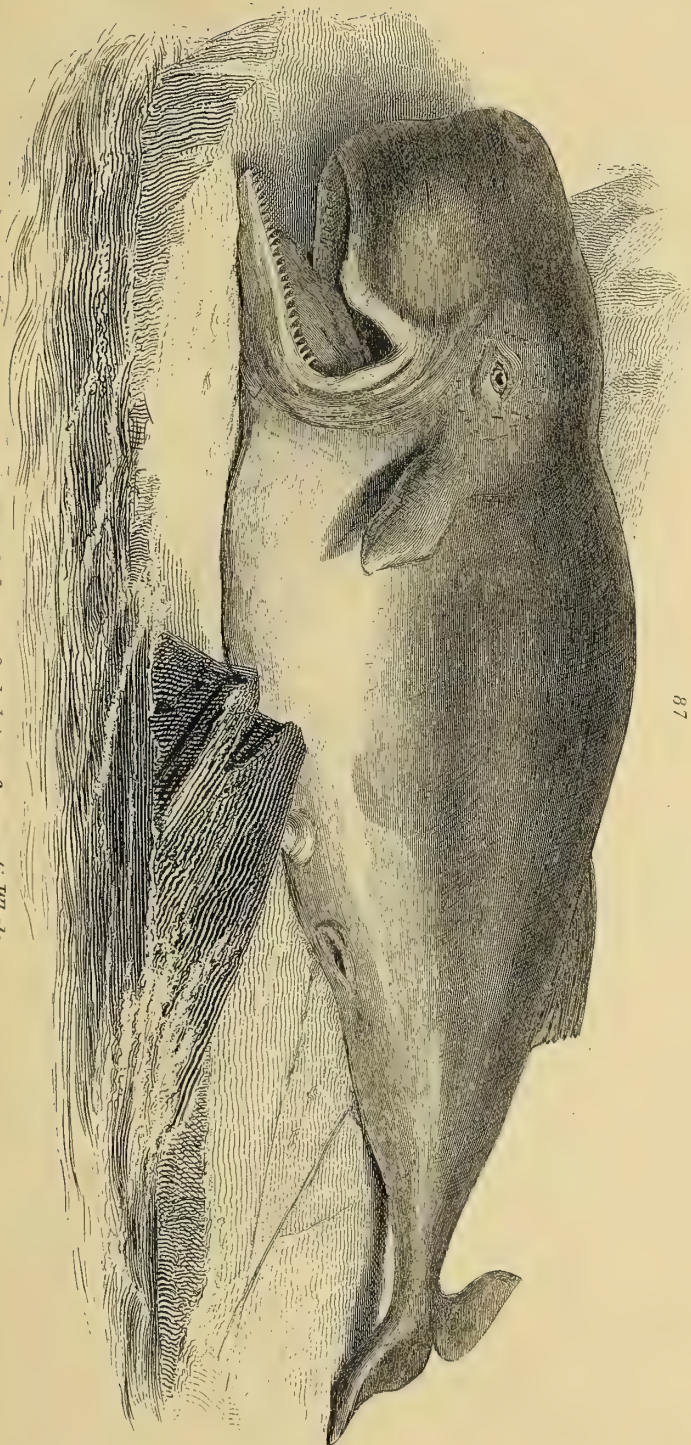
*Family* {  
*Delphinidae*.  
*Physteridae*.

86



*M. Monodon.* — Narwhal

87



*P. Macrorhynchus.* — Cachalot or Sperm Whale.

VIRTUE & YORSTON, NEW YORK.

J. N. Allen, Del.

London, del.







# MAMMALIA.

PLATE 28.

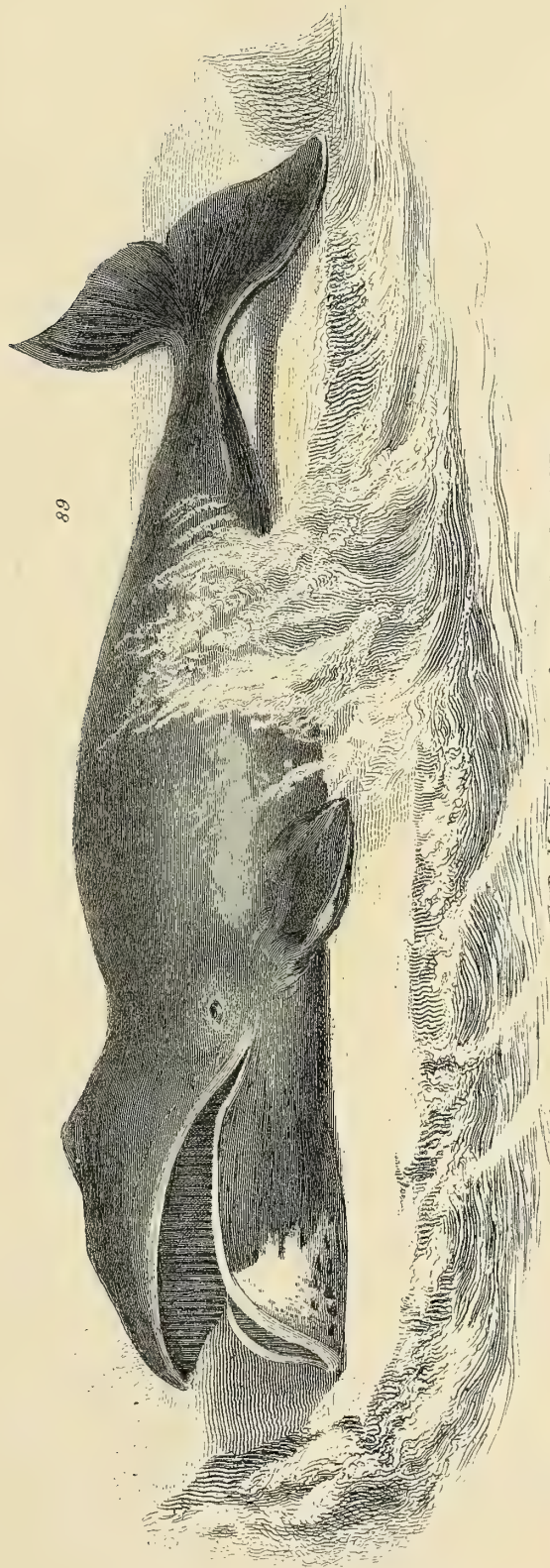
Order Cetacea.

Genera. *Delphinus* *Balaena*.

Families { *Delphinidae*  
*Balaenidae*.



*D. Delphis*.—*Dolphin*



*B. Mysticetus*. — *Common Greenland Whale*.

VIRTUE & YORSTON, NEW YORK







Order. Marsupialia.

Genera. *Hypsiprymnus*. *Macropus*. *Phascalomys*.

Families { *Macropidæ*  
*Phascologydæ*.



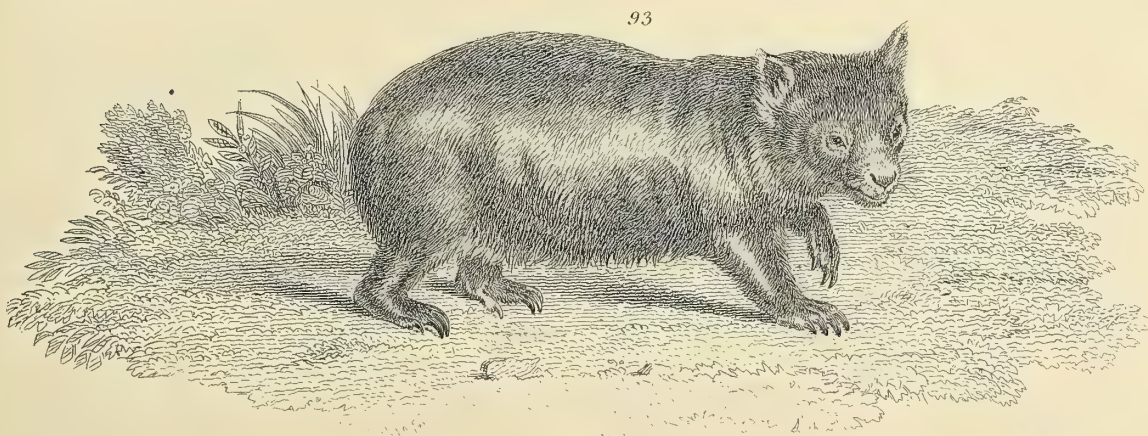
91

*Hyp<sup>s</sup> minor* — *Potoroo* or *Kangaroo Rat*.



92

*M. Giganteus* — *Great Kangaroo*.



93

*P. Wombat* — *Wombat*.







Order Marsupialia

Genera Phalangista, Perameles, Didelphis.

Families  
Phalangistidae.  
Perameiidae.  
Didelphidae.



*Did. virginiana*—Virginia Opossum



*Phal. gliriformis*—Mouse like Phalanger



*Per. obesula*—Spring Bandicoot







Orders { Marsupialia  
Monotremata

Genera Dasyurus, Tachyglossus, Ornithorhynchus.

Families { Dasyuridæ  
Tachyglossidæ  
Ornithorhynchidæ



*T. Hystrix — Porcupine Ant-eater*



*O. Paradoxus — Duck-bill*



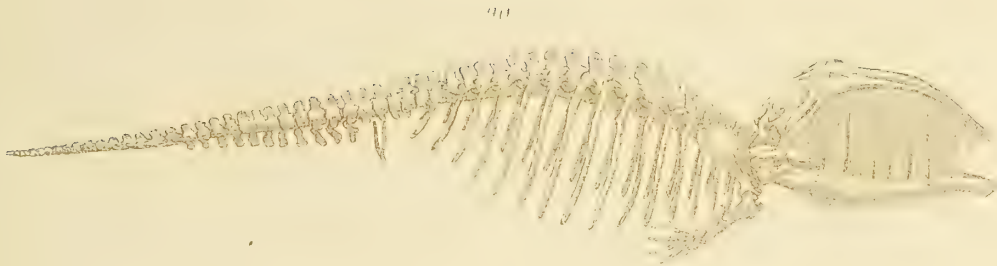




Order. Cetacea.

Genera. Balæna.

Family. Balæniæ.



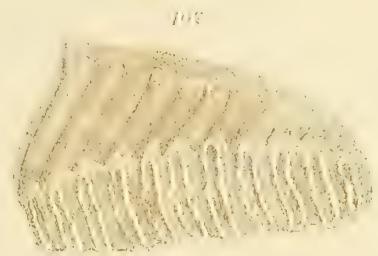
Balæna Mysticetus. Skeleton of Greenland Whale.

Order. Pachydermata

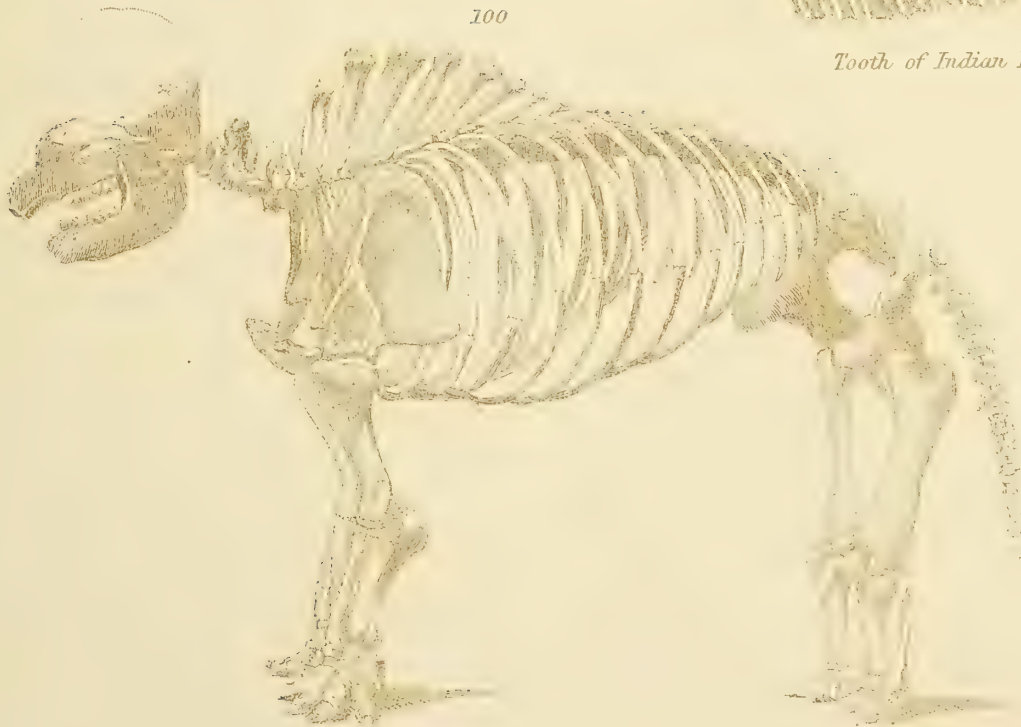
Genus. Mastodon.



Tooth of African Elephant



Tooth of Indian Elephant.



*M. Giganteum*. Gigantic Mastodon.



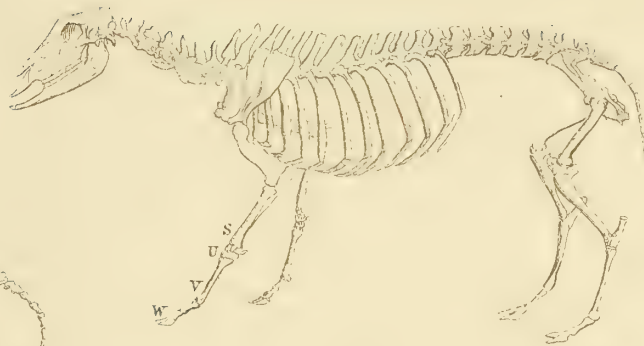




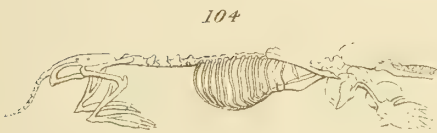
Skeletons.



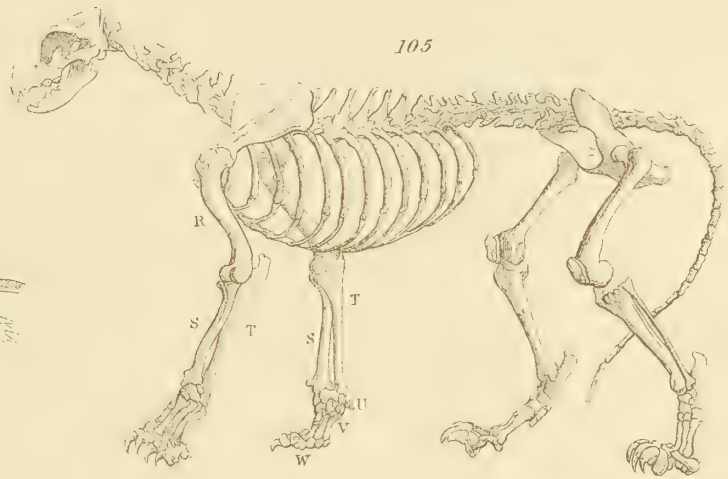
*Mus rattus*.—Black Rat.



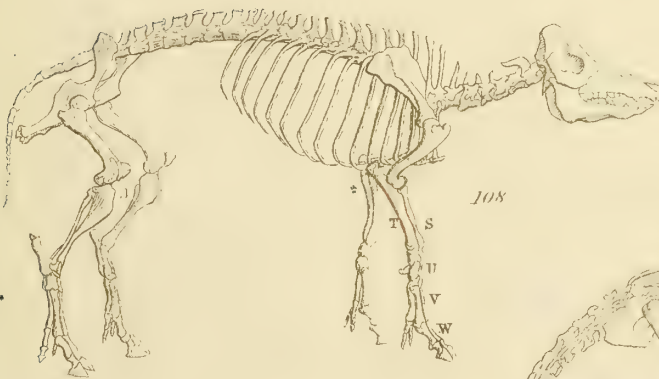
*Ovis aries*.—Sheep.



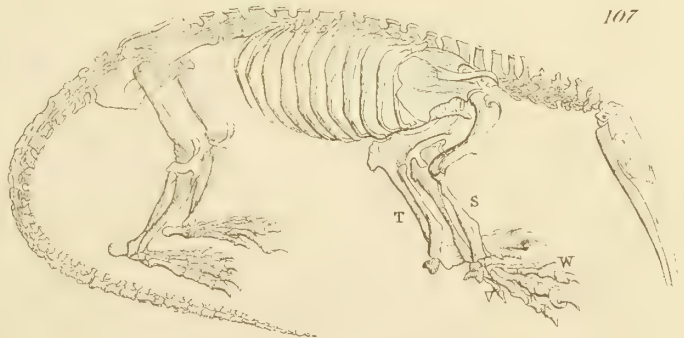
*Talpa europæa*.—Mole.



*Felis leo*.—Lion.



*Sus scrofa*.—Hog.



*Myrmecophaga jubata*.—Great Ant eater.

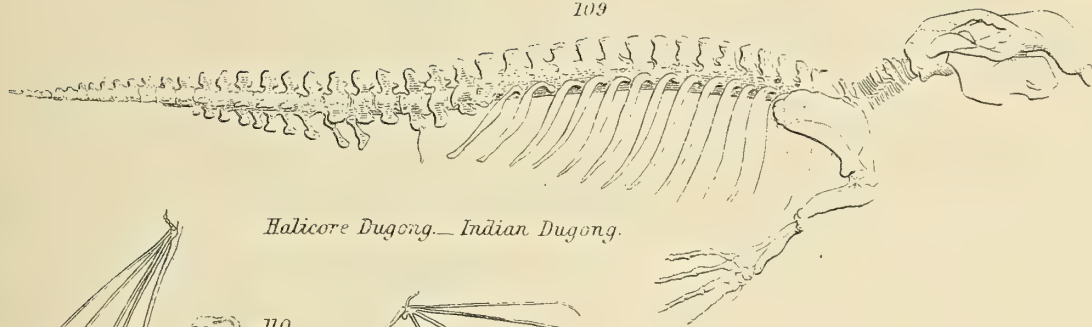






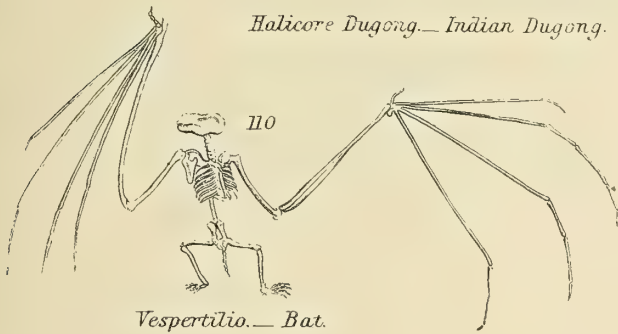
Skeletons.

109



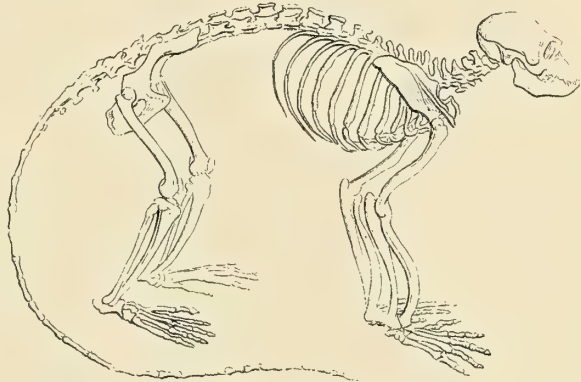
*Halicore Dugong.*—Indian Dugong.

110



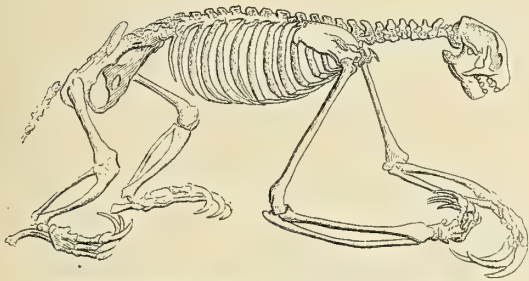
*Vespertilio.*—Bat.

111



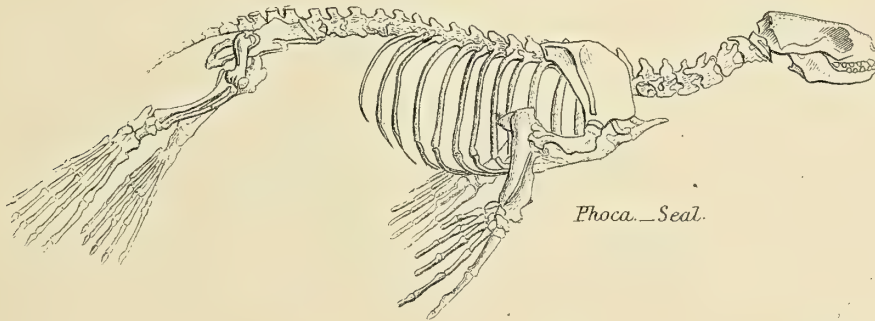
*Semnopithecus Maurus.*—Budeng or Lotong.

112



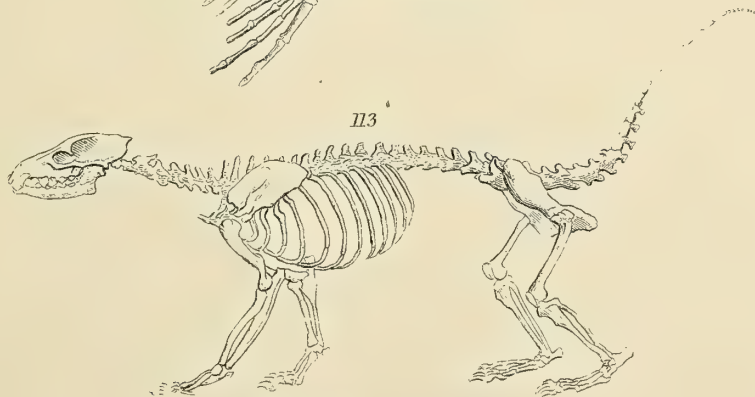
*Bradypus Tridactylus.*—Ai or Three-toed Sloth.

114



*Phoca.*—Seal.

113



*Nasua narica.*—Coatimondi.



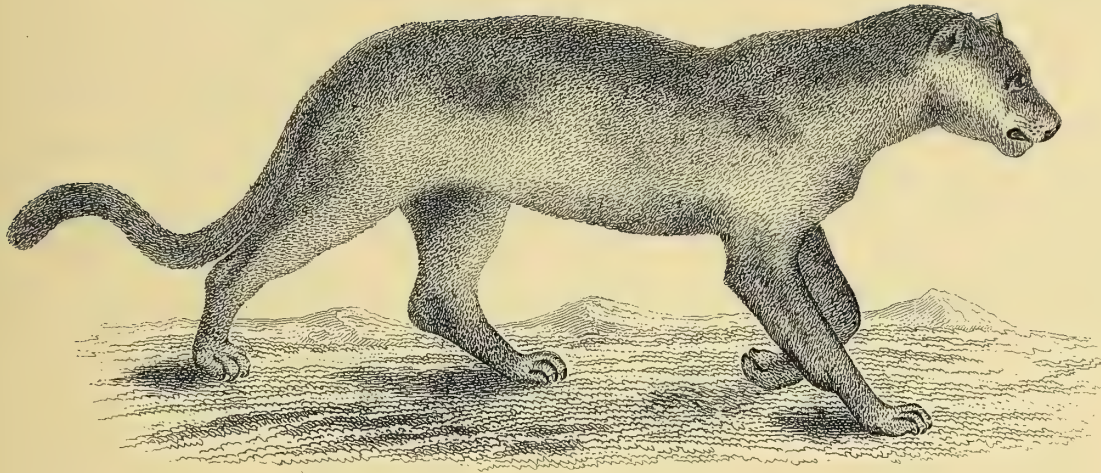




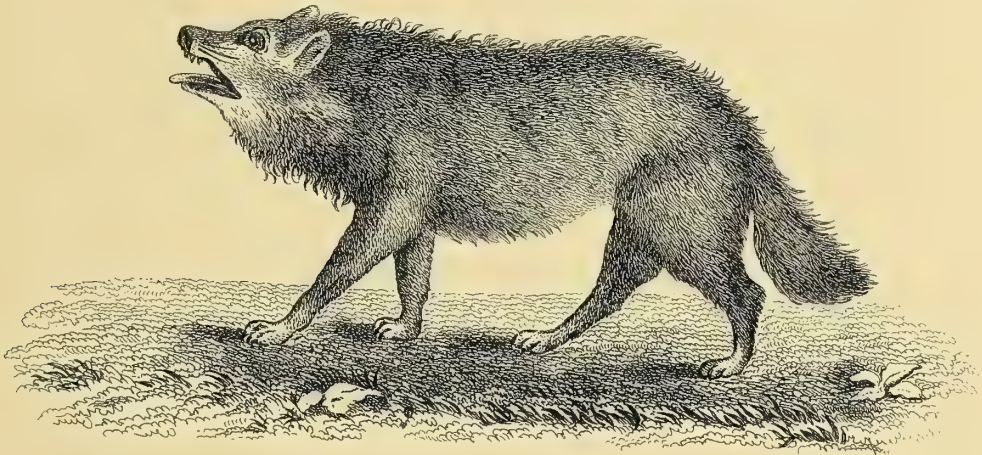
Order { Carnivora  
Rodentia

MAMMALIA.

Families { Felidæ  
Canidæ  
Mustelidæ  
Sciuridæ



i Felis concolor — Puma



ii Canis latrans — Prairie Wolf.



iii Mustela americana  
American Sable.



iv Arctomys monax — Woodchuck.







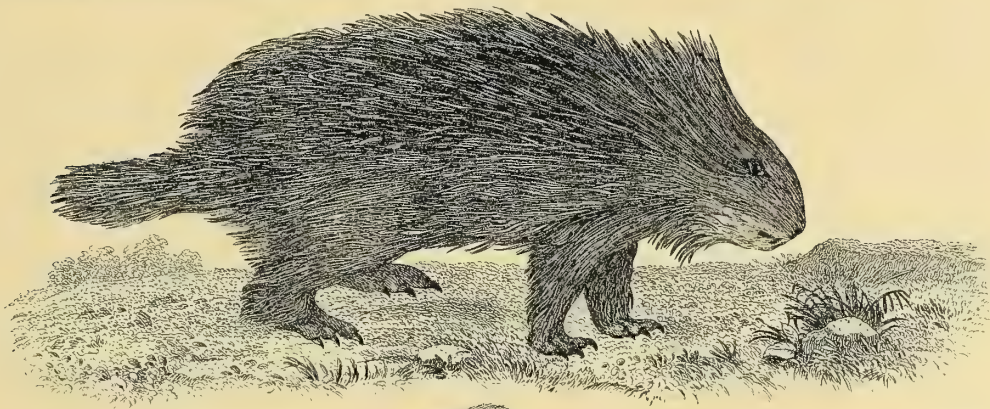
M A M M A L I A .

Orders { Rodentia  
Pachydermata

Families { Cavidæ  
Hystericidæ  
Sciuridæ  
Tapiridæ



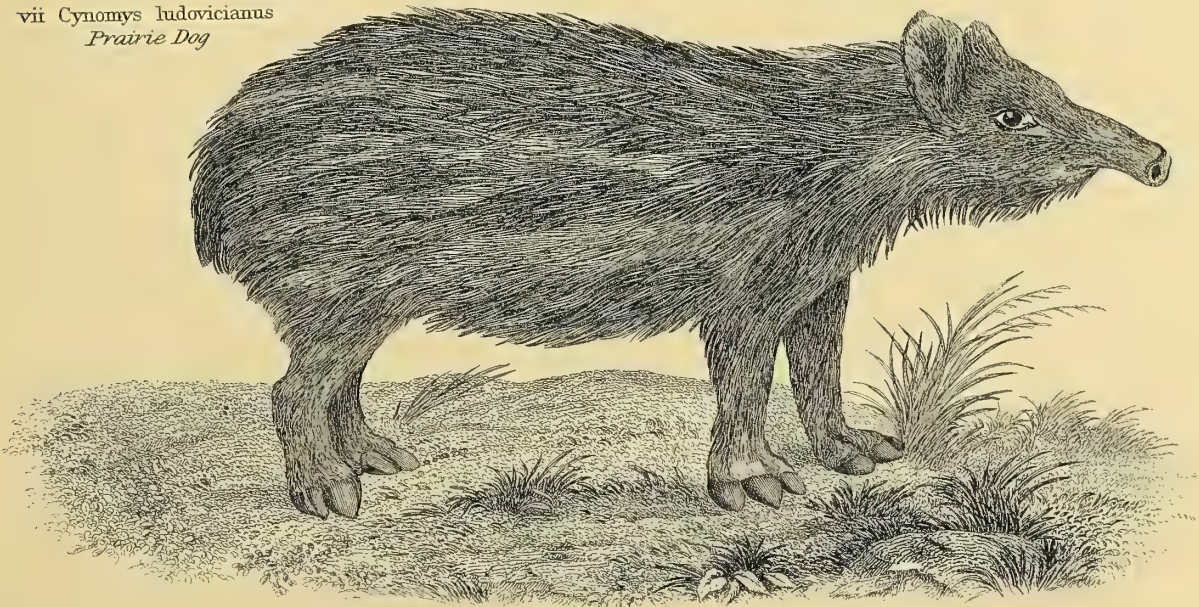
v Hydrocherus Capybara  
*Capybara*



vi Erethizon dorsatus  
*Canada Porcupine*



vii Cynomys ludovicianus  
*Prairie Dog*



viii Elasmognathus Bairdii — *Bairds Tapir*

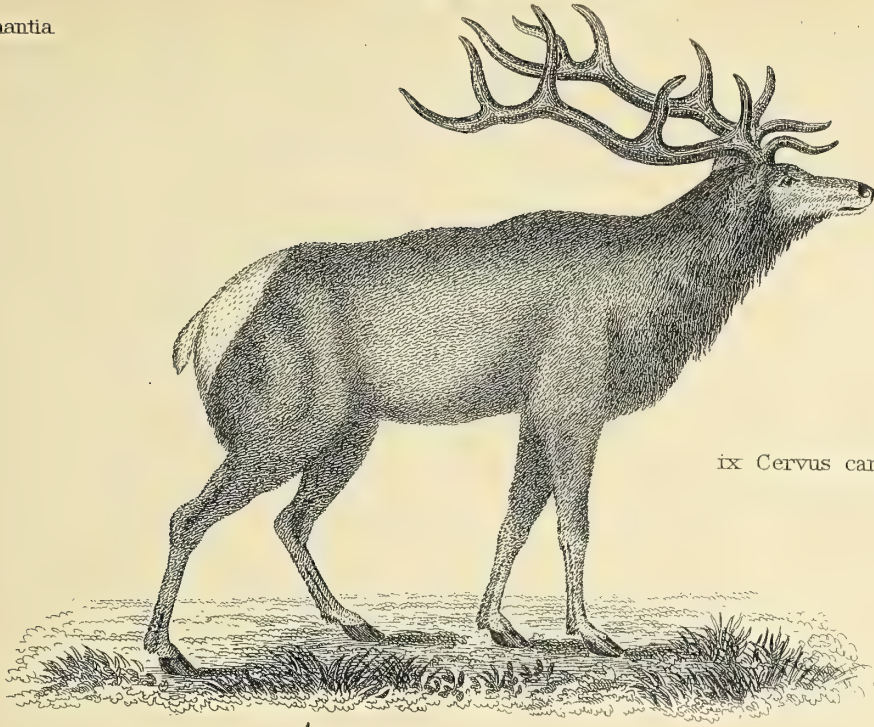






Order, Ruminantia

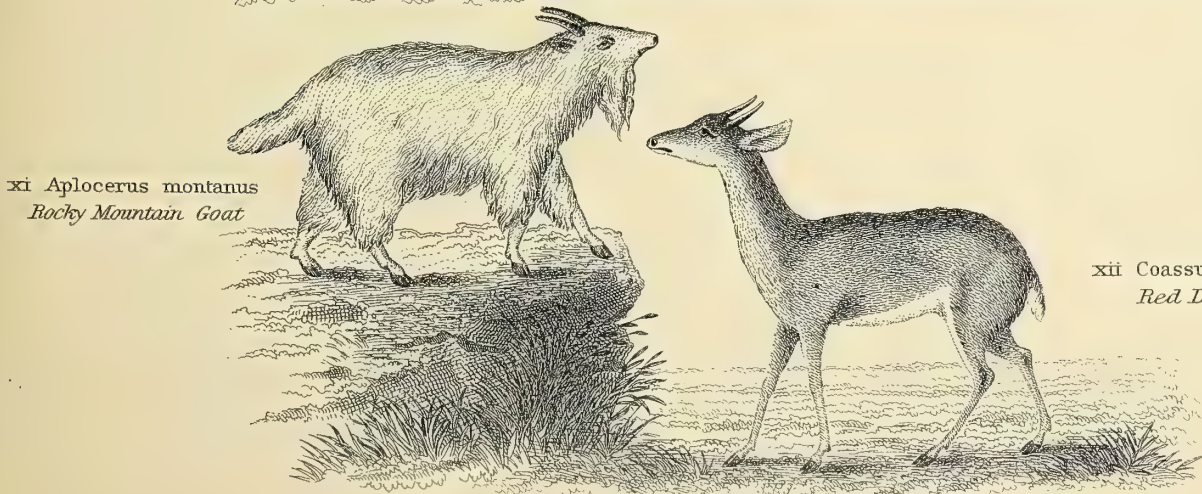
Families { Cervidæ  
Nemorhedinæ



ix *Cervus canadensis*—Wapiti



x *Cervus virginianus*  
Virginia Deer



xi *Aplocerus montanus*  
Rocky Mountain Goat

xii *Coassus rufus*  
Red Deer







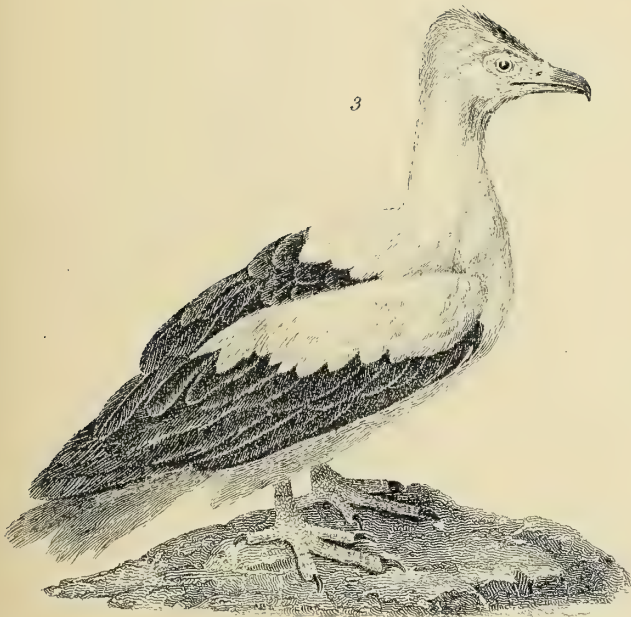
Order Accipitres

Genera Vultur Sarcorhamphus Neophron

Family Vulturidae



Vultur Monachus *Arabian Vulture*



Neophron Percnopterus *Egyptian Vulture*



Sarcorhamphus Papa *King Vulture*



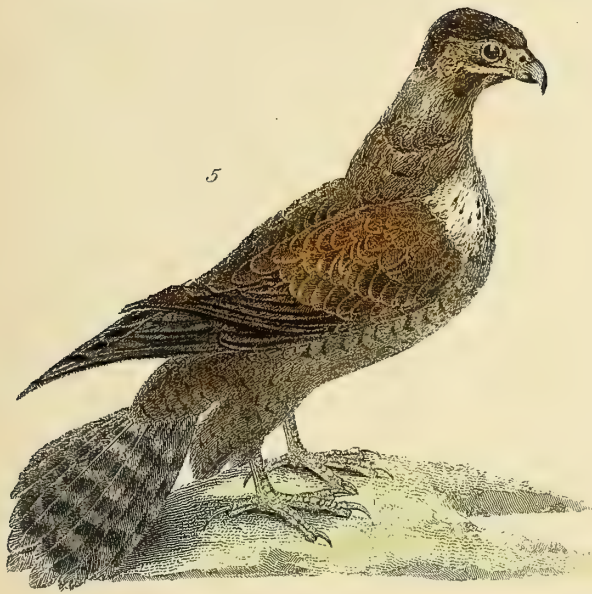




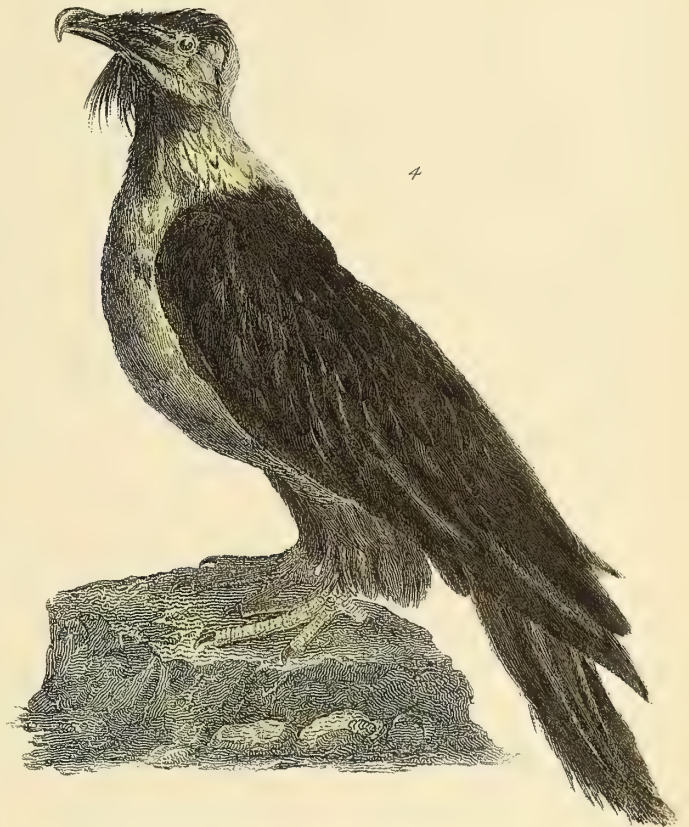
Order Accipitres

Genera Gypaetos. Falco. Spizaetus.

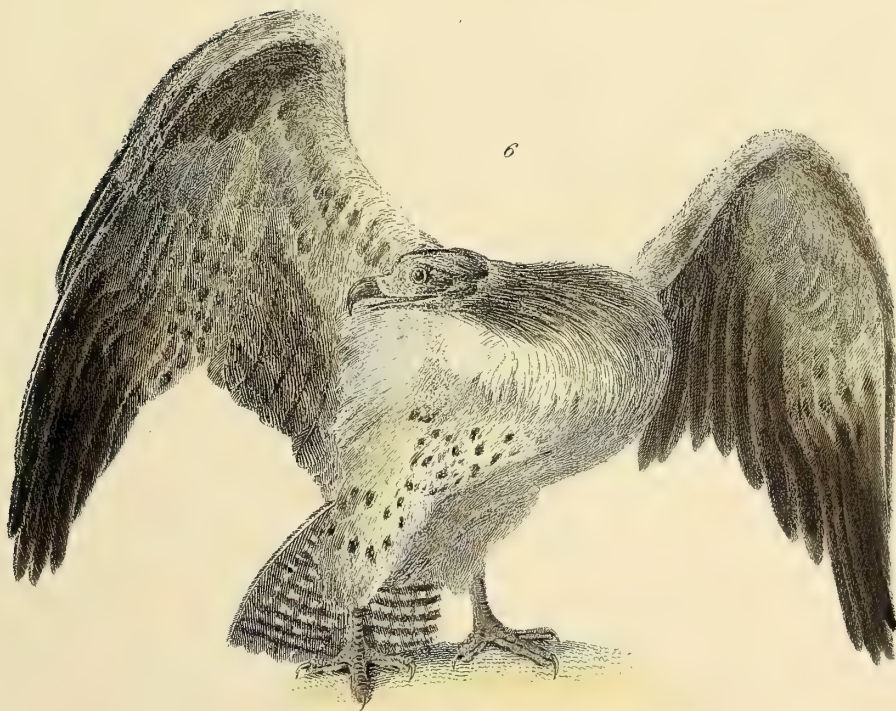
Families { Vulturidæ.  
Falconidæ.



*Falco Berigora*—Cream bellied Falcon.



*Gypaetos Barbatus*—Lammergeyer.



*Spiz Bellicosus*. Martial Eagle.







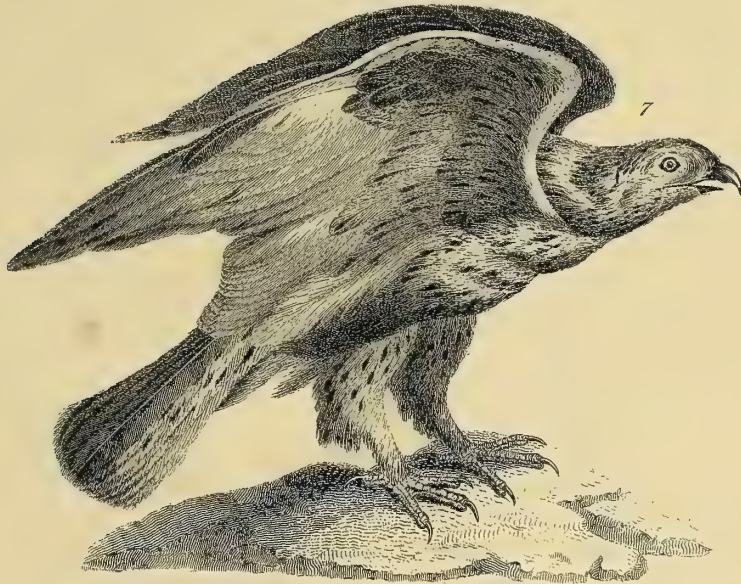
# BIRDS.

PLATE 3

Order Accipitres

Genera Buteo, Serpentiarius, Symium.

Families { Falconidae  
Strigidae



Buteo Lagopus *Rough-legged Buzzard*



Serp. Reptilivorus *Secretary Bird*



Symium Aluco. *Brown Owl*

Withers. del.







Order Accipitres

Genera Otus, Strix, Surnia.

Family Strigidae



Otus vulgaris Long Eared Owl.



Strix flammea Barn Owl.



Surnia nyctea Snowy Owl







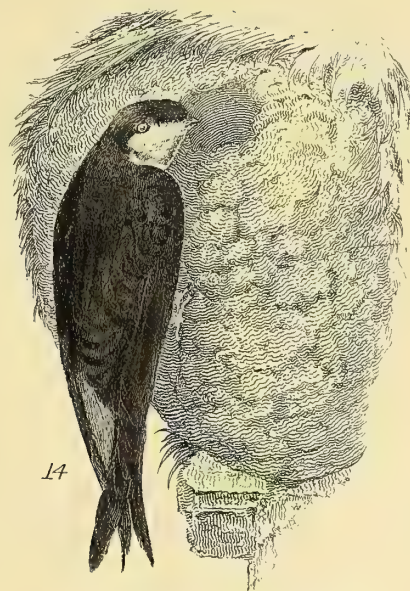
Order, Passeres.

Genera, Hirundo, Chelidon, Cypselus, Collocalia.

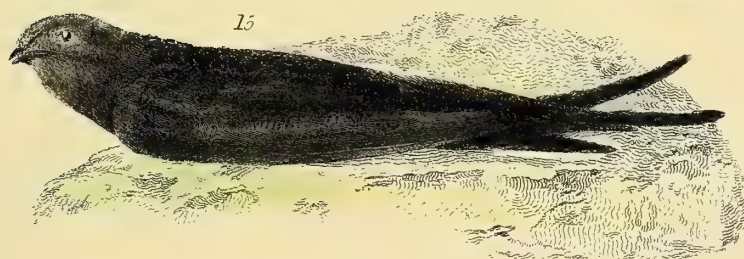
Families { Hirundinidæ.  
Cypselidæ.



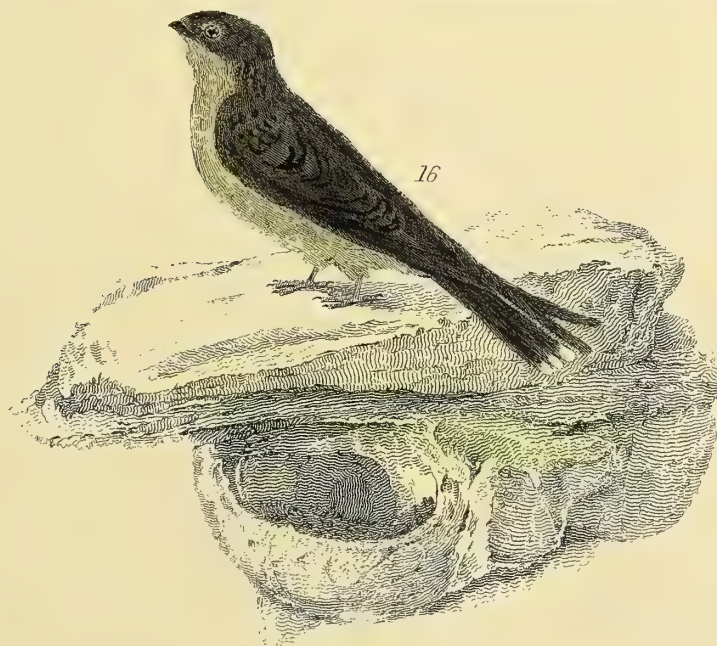
*H. Rustica* . Chimney Swallow.



*C. Urbica* . House Martin.



*Cyp. Apus* . Common Swift.



*Col. Esculenta* . Esculent Swallow.





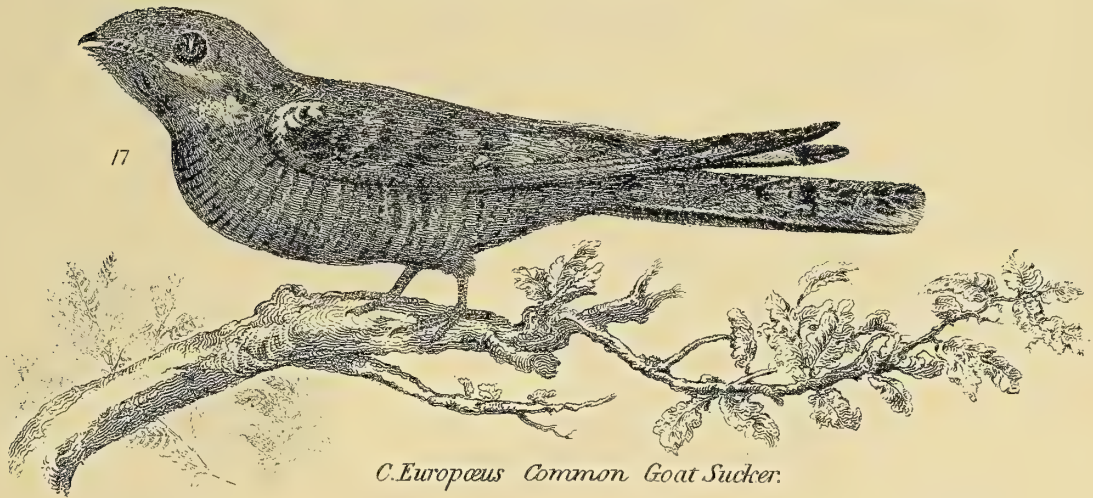


Order. Passeres.

Genera. Caprimulgus, Macrodipteryx, Eurylaimus.

Families { Caprimulgidæ.  
Coraciadæ.

17



*C. Europæus* Common Goat Sucker.

19



*E. Javanicus* - Javanese Tody.

18



*M. Longipennis* Leona Goat Sucker.







# B I R D S .

PLATE 7

Order Passeres

Genera Trogon, Alcedo, Galbula.

Families { Trogonidae  
Alcedinidae

20

Trogon resplendens.

Resplendent Trogon.



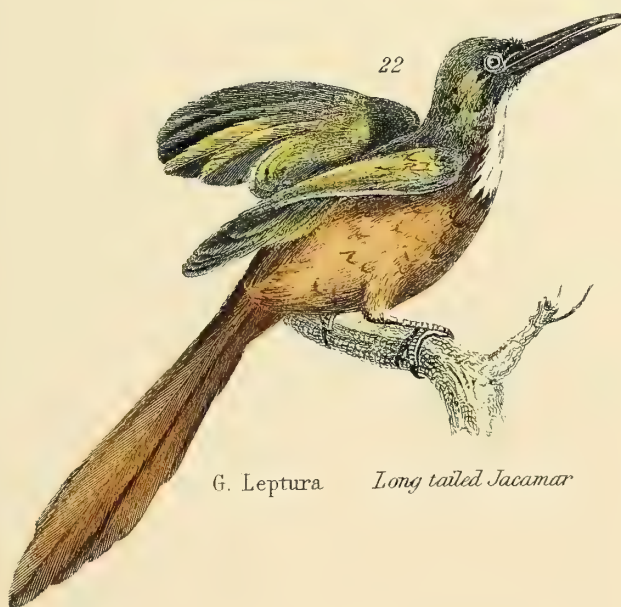
21

A. Ispida Common Kingfisher



22

G. Leptura Long tailed Jacamar









# BIRDS.

Order Passeres.

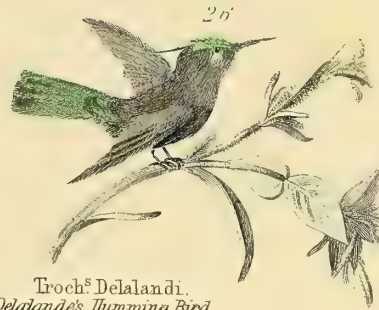
Genera Jacamerops, Merops, Upupa, Trochilus.

Families

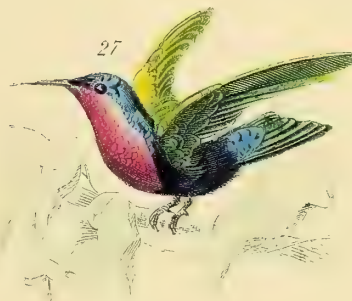
Alcedinidæ.  
Meropidæ.  
Upupidæ.  
Trochilidæ.



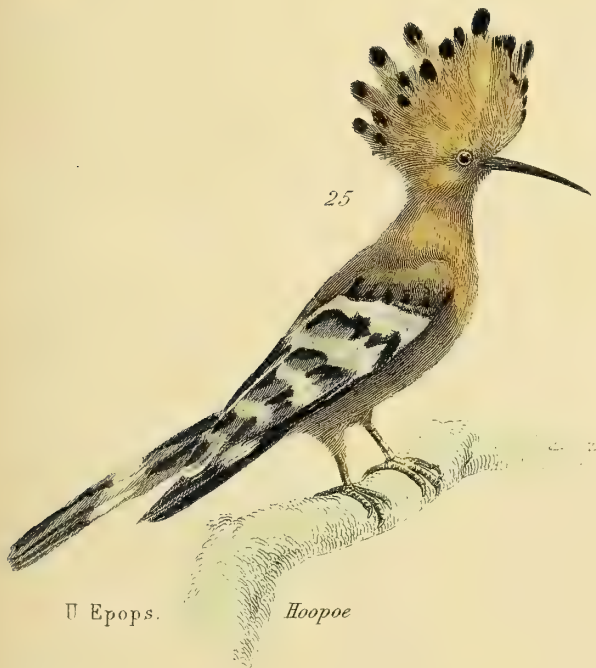
J. Grandis. Great Jacamar



Troch. Delalandi.  
Delalande's Humming Bird



Trochilus granatinus



Upupa Epops. Hoopoe



M. Apiaster. Bee eater







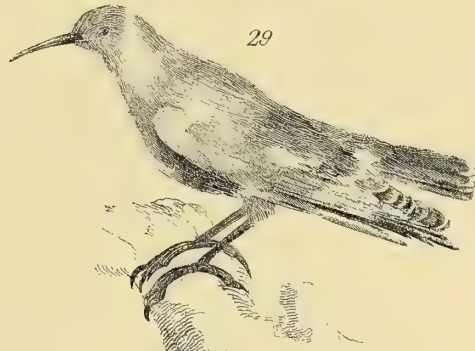
Order, Passeres.

Genera, Certhia, Tichodroma, Sitta, Menura.

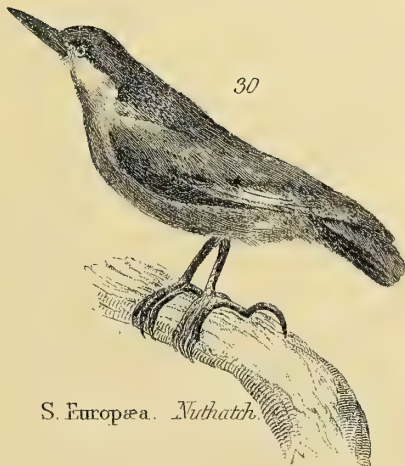
Family, Certhiadae.



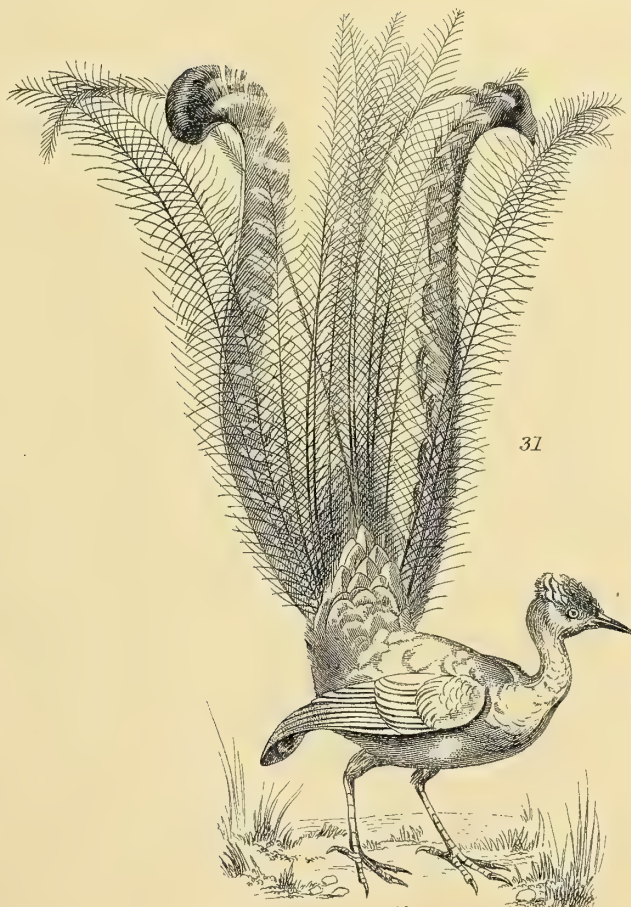
*C. Familiaris*.—Common Brown Creeper.



*Tich. Muraria*.—Wall Creeper.



*S. Europaea*.—Nuthatch.



*Menura superba*.—Lyre-bird.







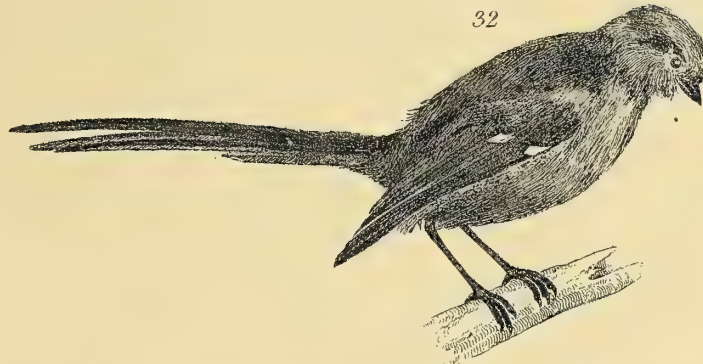
# BIRDS.

PLATE 10.

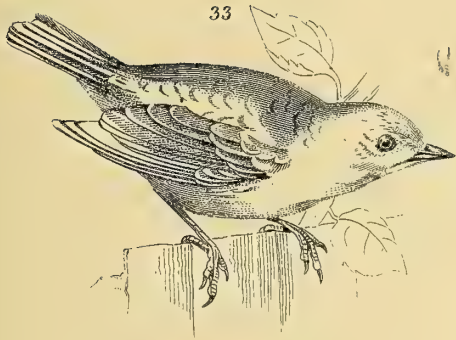
Order, Passeres.

Genera, Mecistura, Erythacus, Mimus, Muscicapa.

Families { Sylviidæ.  
Turdidæ.  
Muscicapidæ.



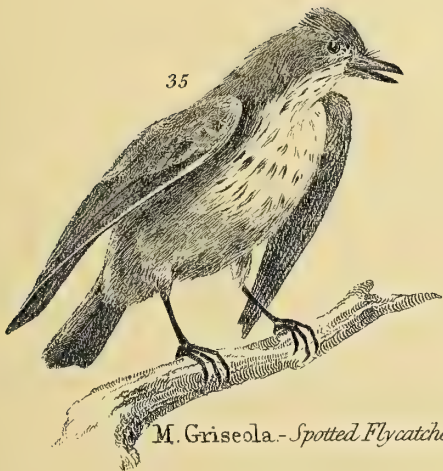
M. Caudata. — Long-tailed Tit.



F. Rubecula. — Red-breast.



M. Polyglottus — Mocking-bird.



M. Griseola — Spotted Flycatcher.



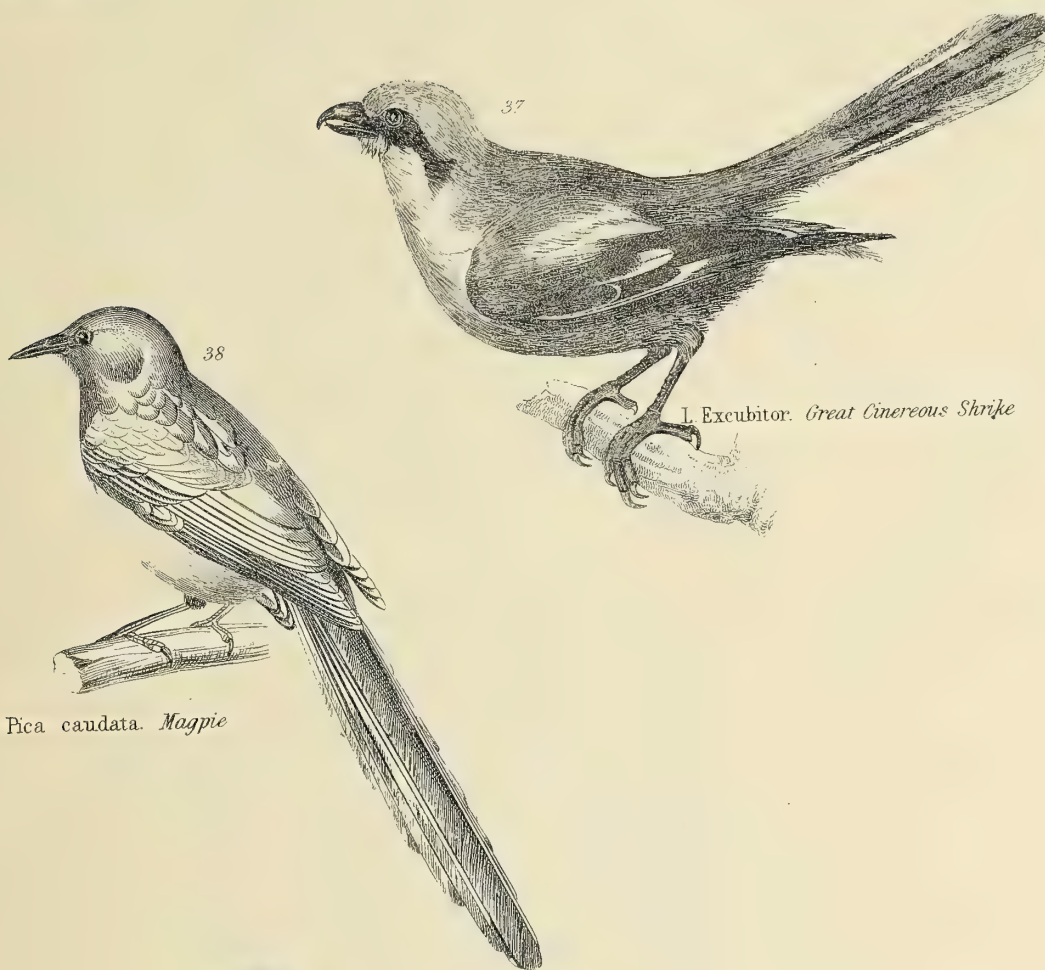




Order Passeres

Genera Rupicola, Lanius, Pica.

Families {  
 Ampelidæ.  
 Laniidæ  
 Corvidæ.



L. Excubitor. Great Cinereous Shrike

Pica caudata. Magpie



R. Aurantia. Orange Cock of the Rock

36







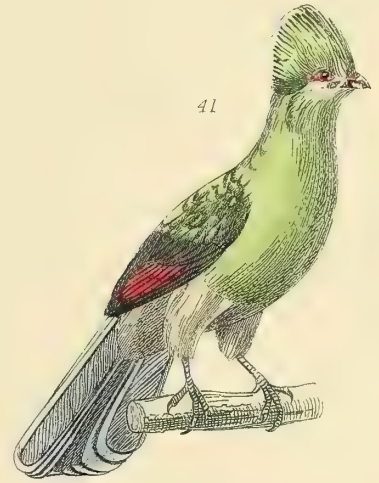
Order. Passeres.

Genera. Paradisea. Sturnus. Corythaix. Buceros.

Families. { Paradiseidæ  
Sturnidæ.  
Musophagidæ.  
Bucerotidæ.



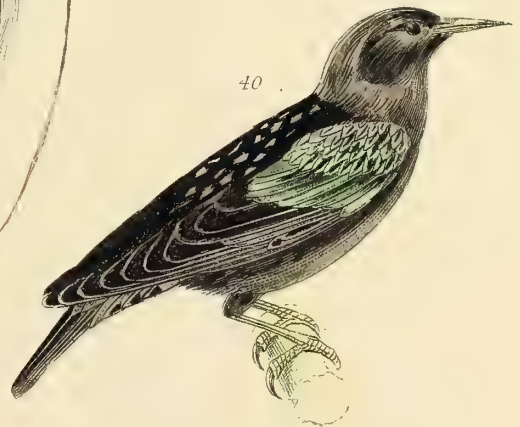
Parad<sup>a</sup> Apoda. Emerald Bird of Paradise.



Corythaix persa. Louri. Touraco.



Buceros Rhinoceros. Rhinoceros Hornbill.



Sturnus vulgaris. Common Starling.



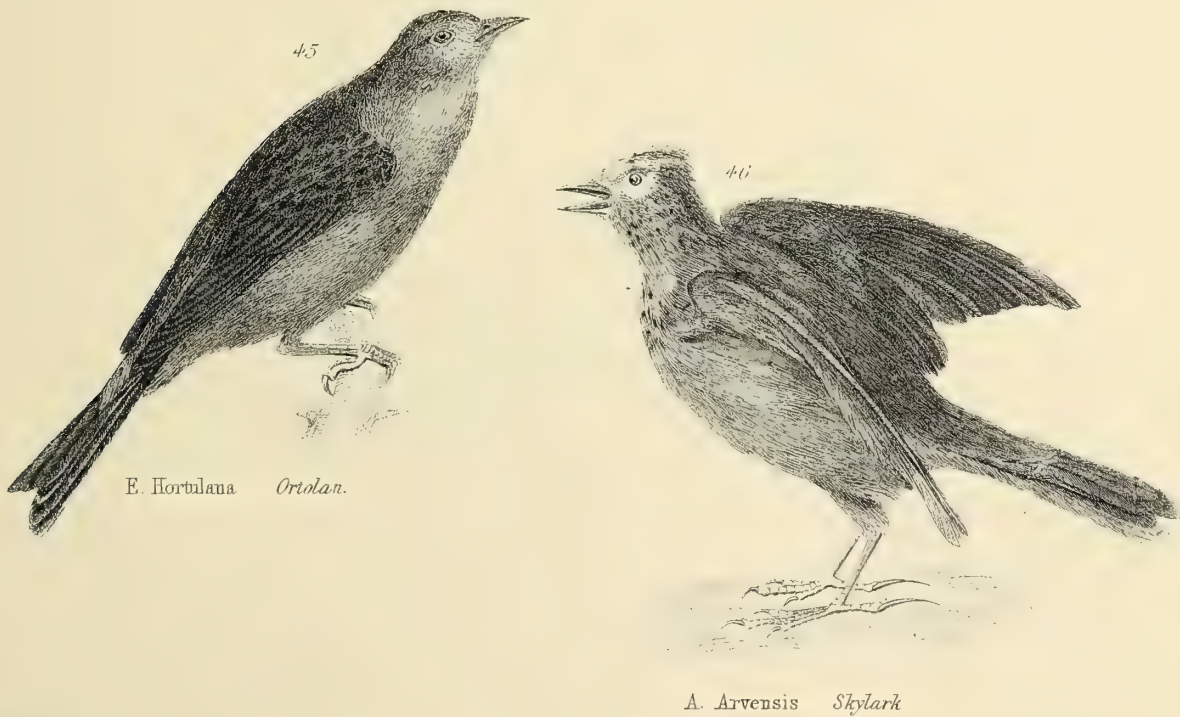
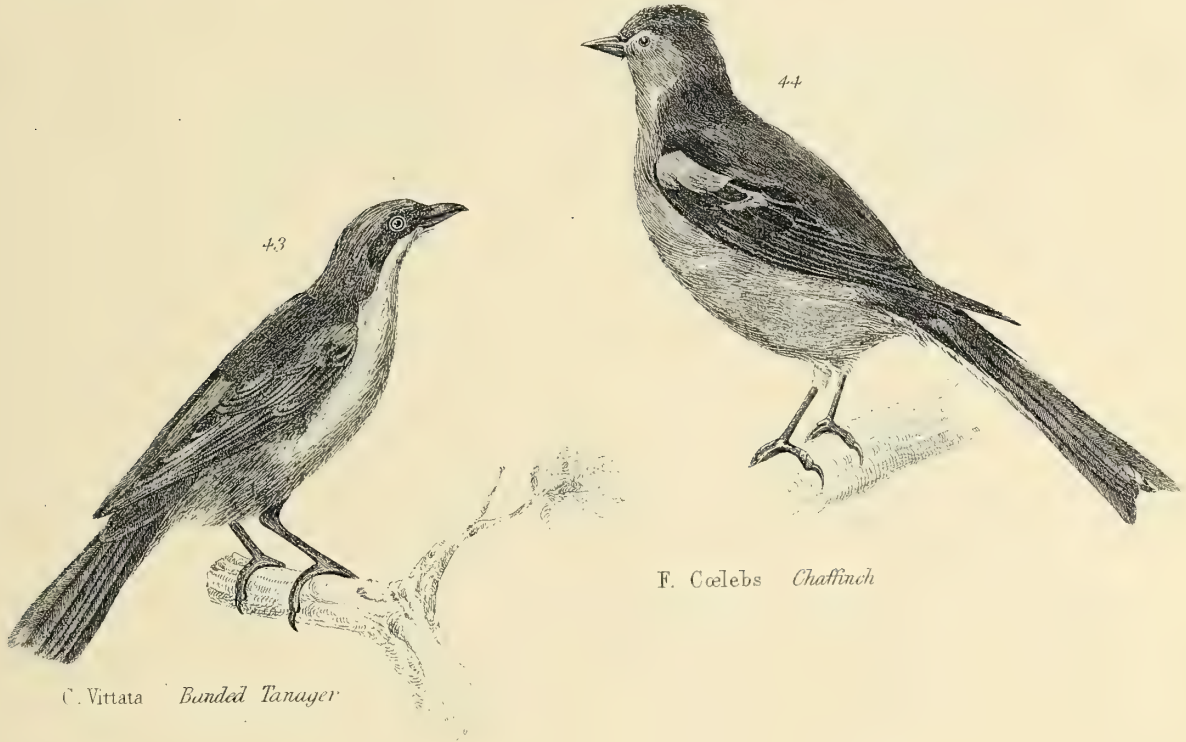




Order Passeres

Genera Calospiza. Fringilla. Emberiza, Alauda.

Family Fringillidæ









Orders { Passeres  
Scansores.

Genera. Pinicola, Loxia, Macrocercus.

Families { Fringillidæ.  
Psittacidæ.



*Macrocercus Macao.* Scarlet Macaw.

*L. Curvirostra* — Crossbill.

*P. Enucleator*. — Fine Grosbeak.







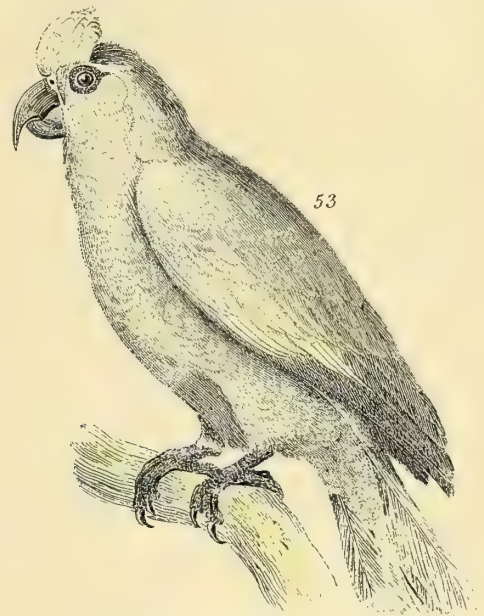
Order, Scansores.

Genera, Conurus, Psittacus, Psittacula, Licmetis, Microglossum

Family, Psittacidae.



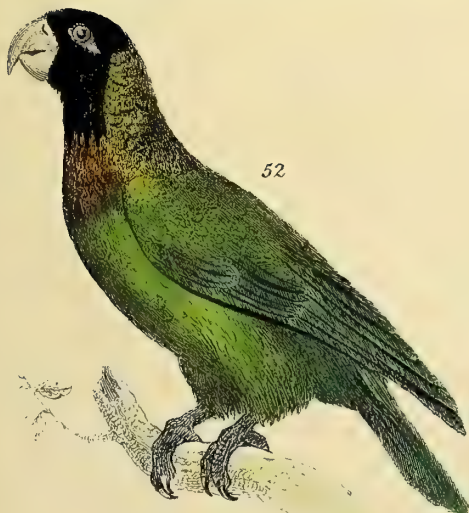
*C. Solstitialis*—Yellow Parroquet.



*L. Tenuirostris*—Long-nosed Cockatoo.



*Psittacus Erythacus*—Grey Parrot.



*Psitt. Pileata*—Bonneted Psittacule.



*Micro. Aterrimum*—Goliath Cockatoo.



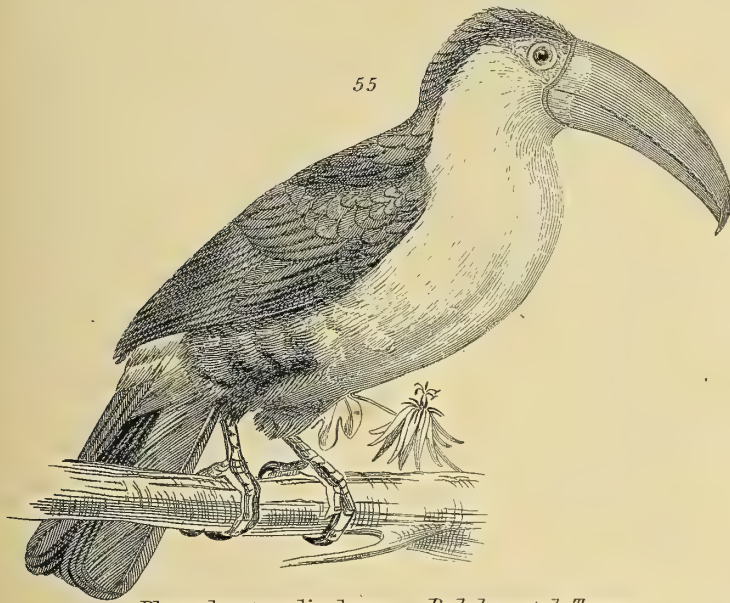




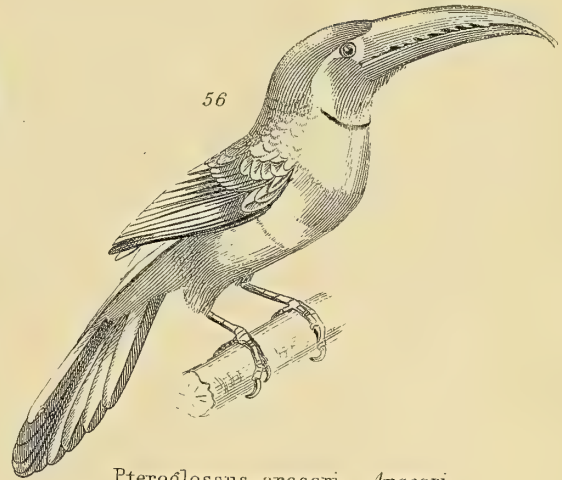
Order, Scansores.

Genera, Rhamphastos, Pteroglossus, Picus, Picoides.

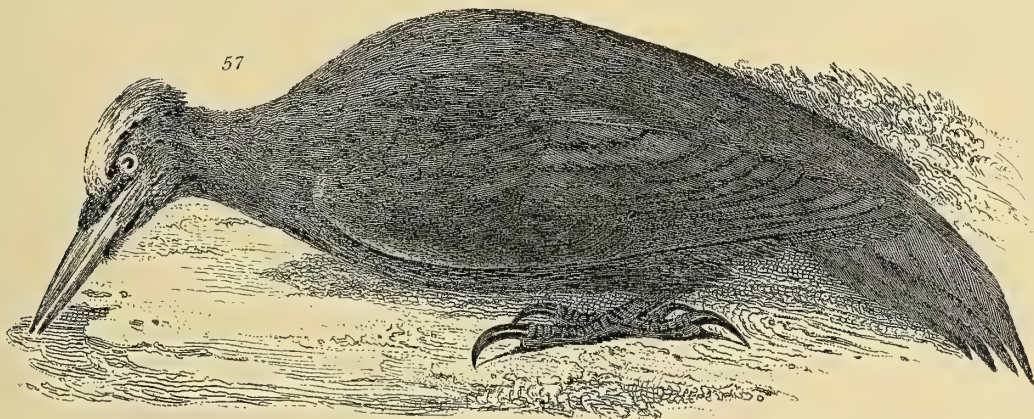
Families { Rhamphastidæ.  
Picidæ.



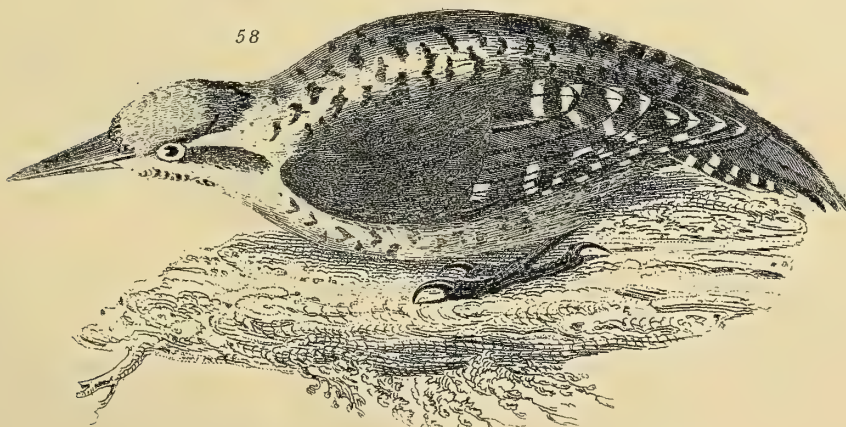
Rhamphastos dicolorus.—Red-breasted Toucan.



Pteroglossus aracari.—Aracari.



Picus Martius.—Great Black Woodpecker.



Picoides Tridactylus.—Three-toed Woodpecker.



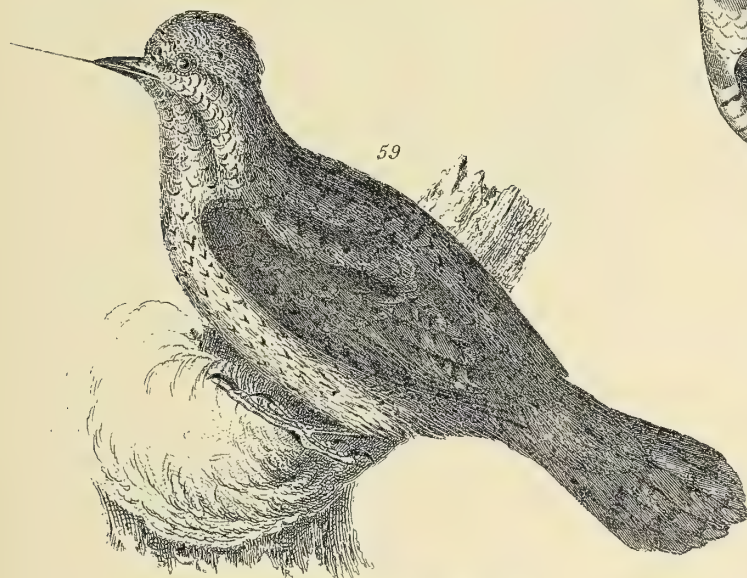




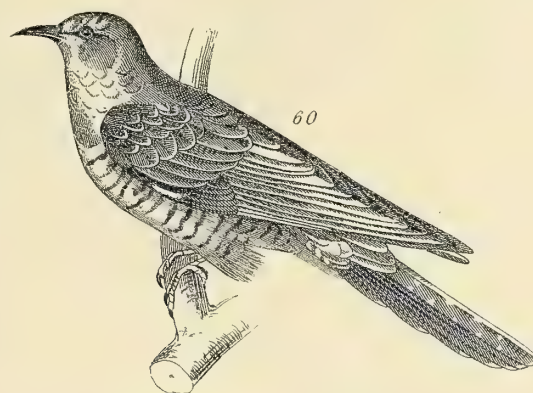
Orders { Scansores.  
Columbæ.

Genera. Yunx, Cuculus, Columba, Carpophaga.

Families { Picidæ.  
Cuculidæ.  
Columbidæ.



Yunx Torquilla. *Wryneck.*



Cuculus Canorus. *Cuckoo.*



C. Punicea. *White-headed Pigeon.*



Car. Magnifica. *Magnificent Fruit Pigeon*



C. Enas. *Stock Dove.*







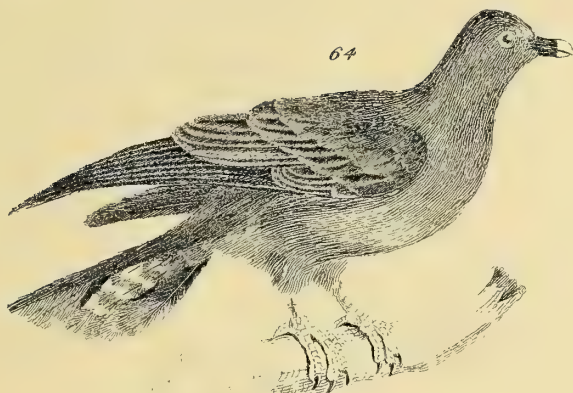
# B I R D S .

PLATE 18

Orders { Columbæ  
Gallinæ

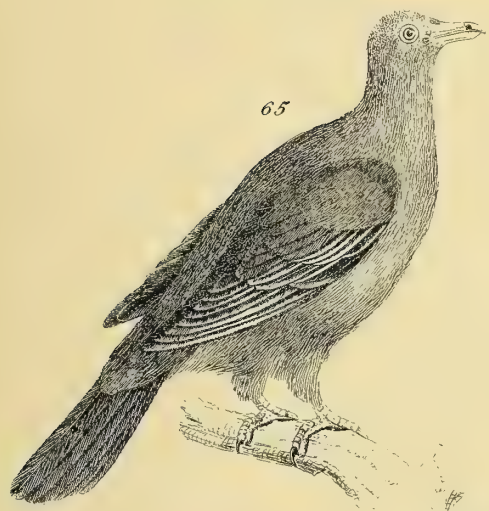
Genera Treton. Goura. Gallus. Ceriornis.

Families { Columbidae  
Phasianidae



64

T. Abyssinica. *Walia Pigeon*



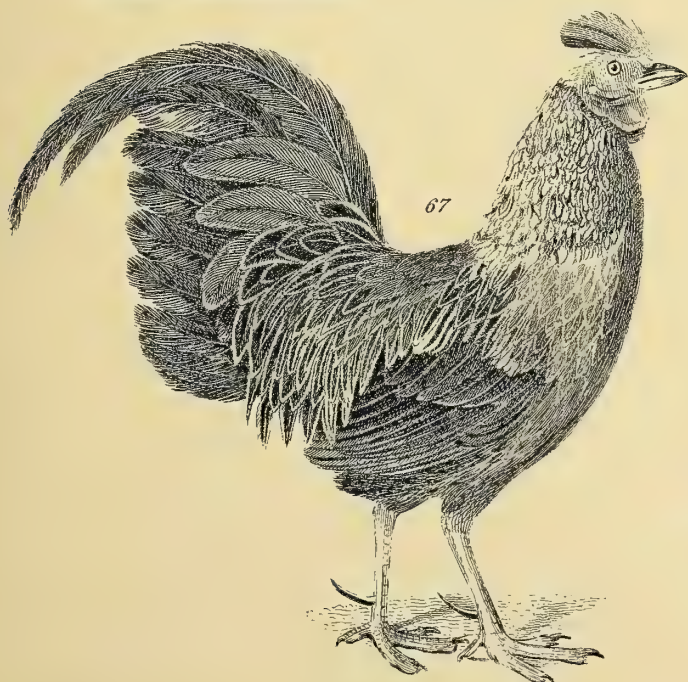
65

T. Sieboldii. *White-booted Pigeon*.



66

G. Coronata. *Crowned Pigeon*.



67

G. Bankivus. *Bankiva Cock*.



68

C. Satyrus. *Tragopan or Nepaulese Horned Pheasant*.







Order. Gallinæ.

Genera. Euplocamus, Phasianus, Numida.

Family Phasianida.



P. Amherstiae. Amherst's Pheasant.

72



Numida Meleagris.—Guinea Fowl.

69



E. Ignitus. Five backed Pheasant.

71



P. Sybhemerus. Silver Pheasant.







Order, Gallinæ.

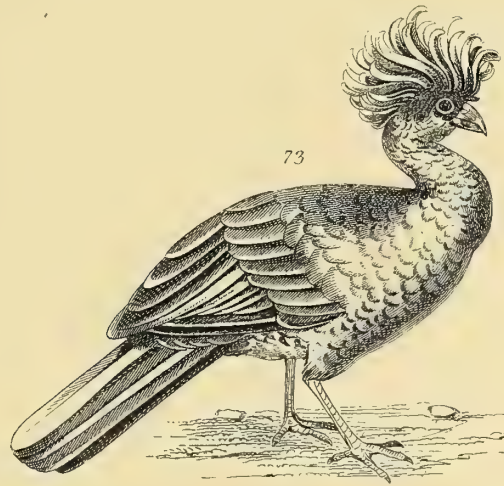
Genera. Crax, Talegalla, Megapodius, Caccabis, Rollulus, Chionis.

Families

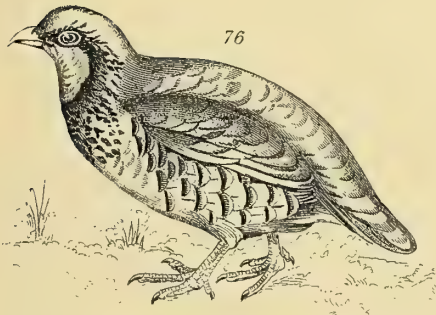
{ Cracida.  
Megapodiidæ  
Tetraonidæ.  
Chionididæ.



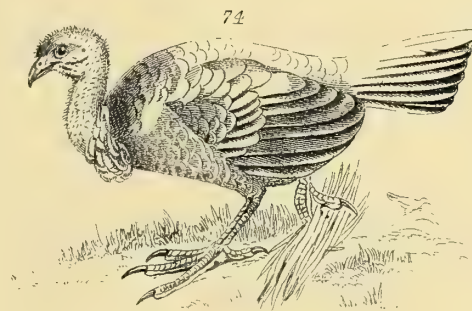
M. Freycineti. Freyinet's Mankirio



C. Aleator. Common Curassow.



C. Rubra. Red-legged Partridge.



T. Lathamii. Brush Turkey.



C. Alba. White Sheathbill.



R. Cristatus. Crowned Partridge.







Order. Cursores.

Genera. Struthio. Rhea. Casuarius.

Family. Struthionidae.



S. Camelus. Ostrich.



R. Americana. Nandu.



C. Galcatus. Cassowary.







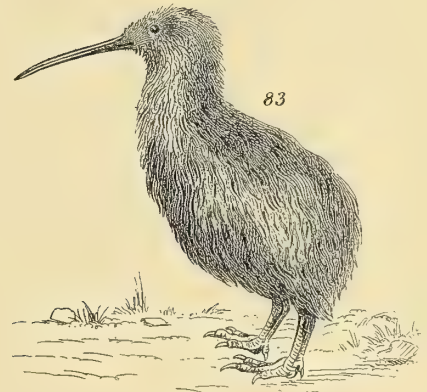
Orders { Cursores.  
Grallæ.

Genera. Dromaius. Apteryx. Otis. Œdicnemius.

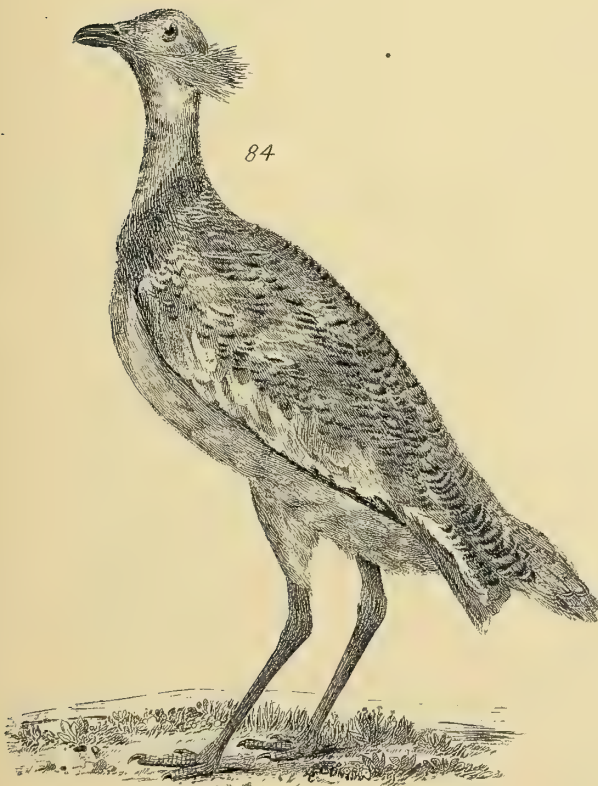
Families { Struthionidæ.  
Apterygidæ.  
Otididæ.  
Charadriidæ.



D. Novæ Hollandiæ — Emu

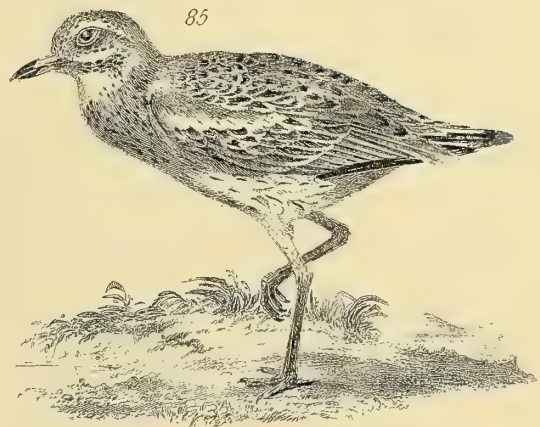


Apteryx Australis — Shaw's Apteryx.



Chas. Bone, del.

O. Tarda — Great Bustard.



Œ. Crepitans — Common Thick-knee.

J. N. Allan, lith.



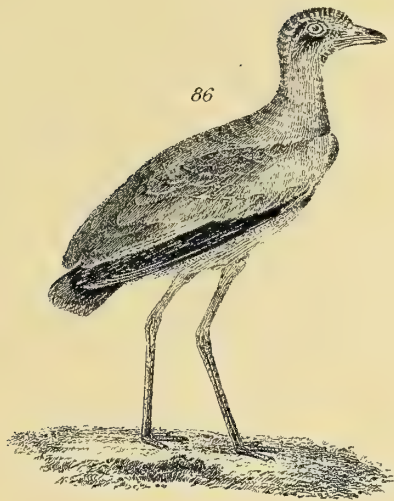




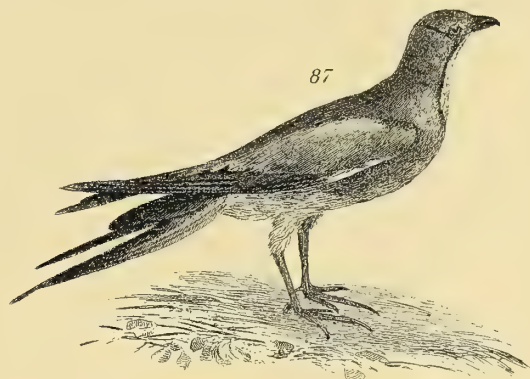
Order. Grallæ.

Genera. Cursorius, Glareola, Charadrius, Squatarola, Hæmatopus, Cariama.

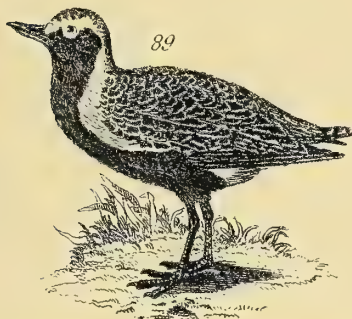
Families { Charadriidæ.  
Gruidæ.



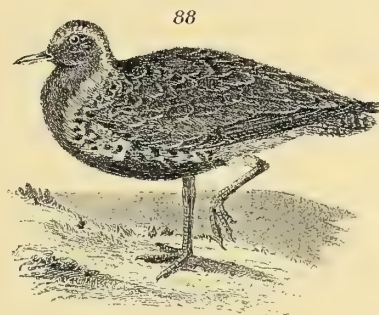
Cur. Chalcopterus. *Brazen-winged Courser.*



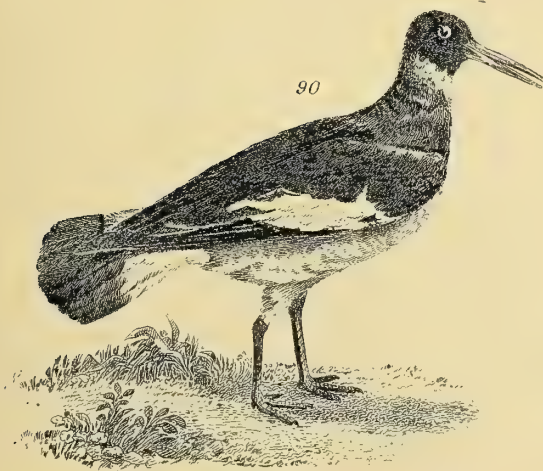
G. Torquata. *Collared Pratincole.*



S. Helvetica. *Gray Plover or Sand-piper.*



Char. Pluvialis. *Golden Plover.*



H. Ostralegus. *Oyster-catcher*



C. Cristata. *Macgregor's Cariama.*







Order. Grallæ.

Genera. Ardea, Botaurus, Cancroma.

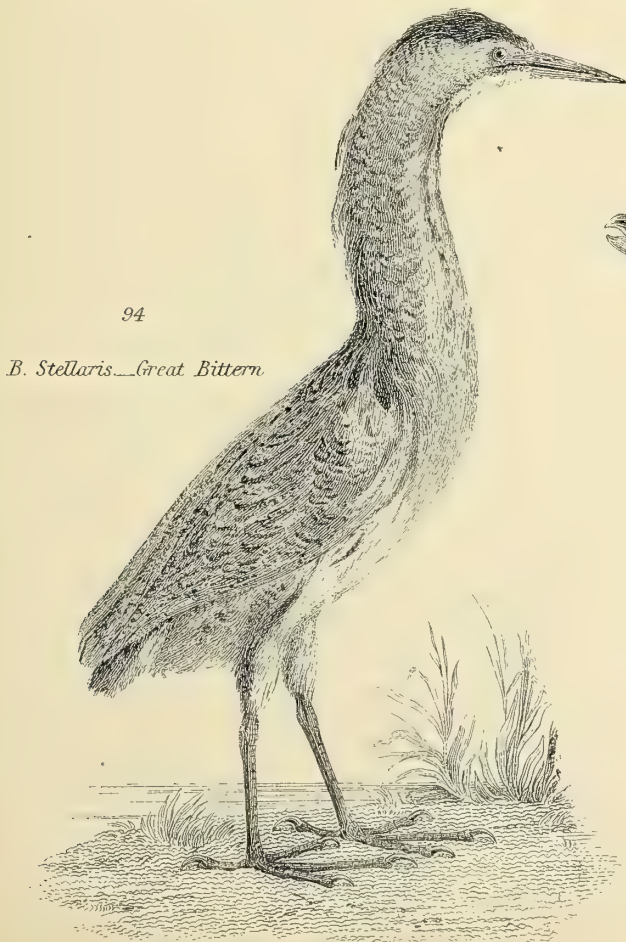
Family. Ardeidæ.



*A. cinerea*.—Gray Heron.



*A. egretta*.—Great Egret.



*B. stellaris*.—Great Bittern.



*C. cochlearia*.—Boatbill.



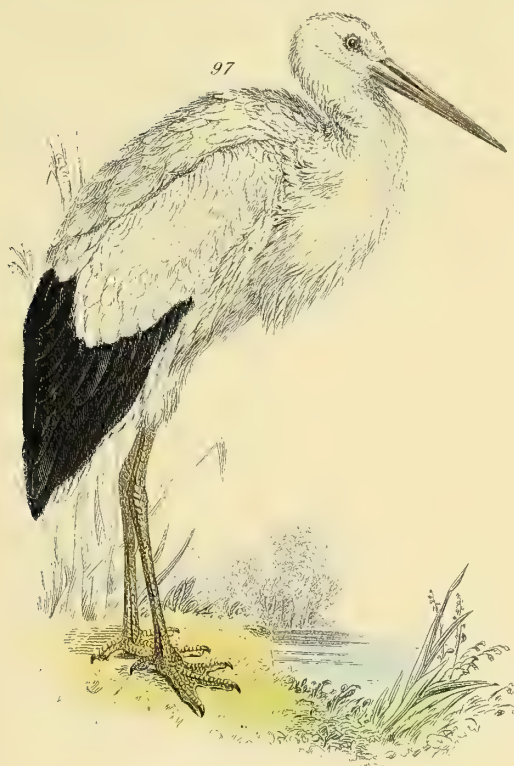




Order Grallæ.

Genera Platalea, Ciconia, Mycteria.

Family Ardeidæ.



C. Alba—White Stork.



Platalea Ajaja—Roseate Spoonbill.



M. Senegalensis—Senegal Jabiru.







Order: Grallæ

Genera, Anastomus, Scopus, Tantalus.

Family: Ardeidæ.



*S. Umbretta* — *Tufted Umbrellabird*.



*A. Lamelligerus* — *Madagascar Open-bill*



*T. Lacteus* — *Milky Ibis*.



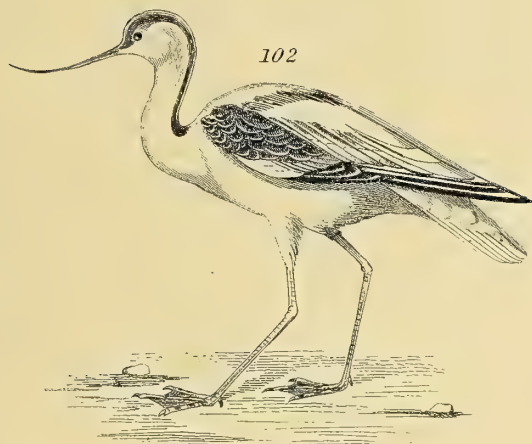




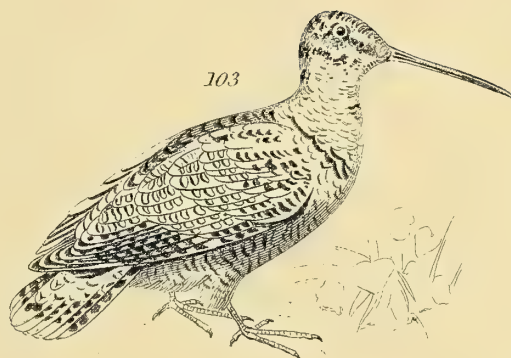
Order Grallæ

Genera *Recurvirostra*, *Scolopax*, *Parra*.

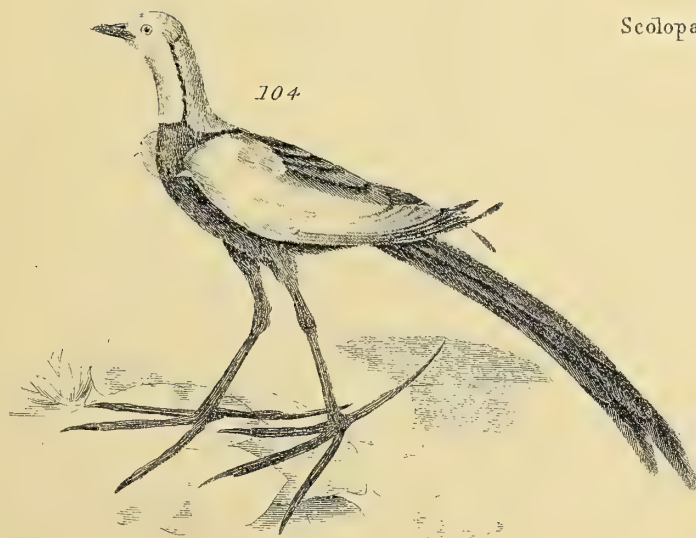
Families { *Scolopacidae*  
              *Rallidae*



*Recurvirostra avocetta* — *Avocet*.



*Scolopax gallinago*. *Common Snipe*.



*Parra sinensis* — *Chinese Jacana*.



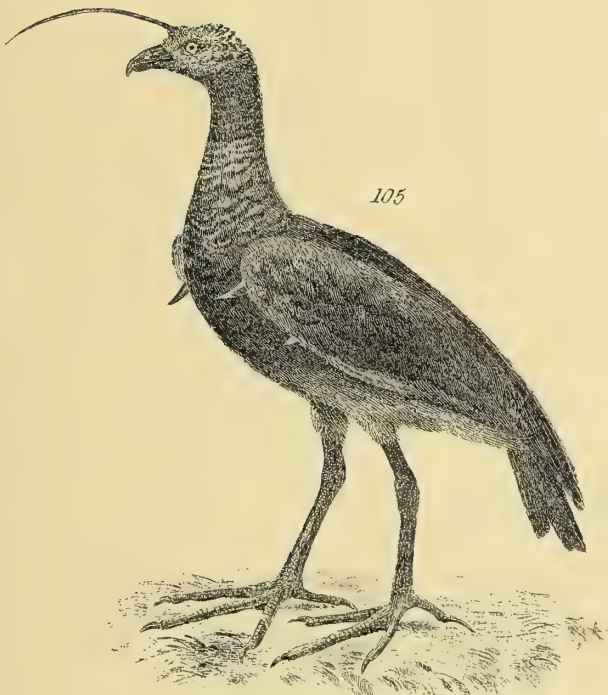




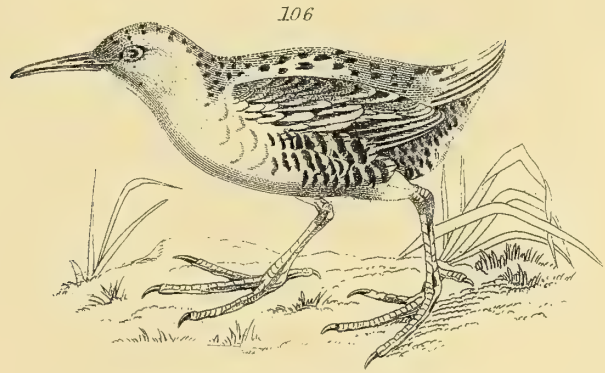
Order. Grallæ.

Genera. Palamedea, Rallus, Porphyrio, Gallinula.

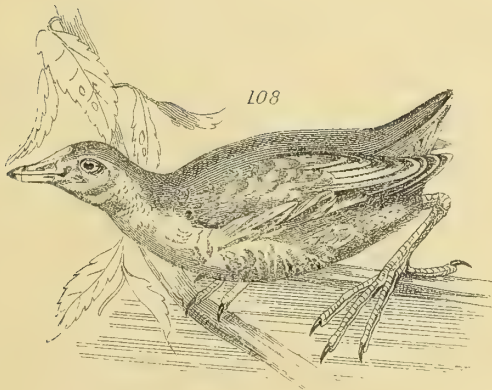
Family. Rallidæ.



Pal. Cornuta. *Horned Screamer*



Rallus aquaticus. *Water Rail*



Gallinula chloropus. *Gallinule*



Porph. Pulverulentus. *Sultana Bird*



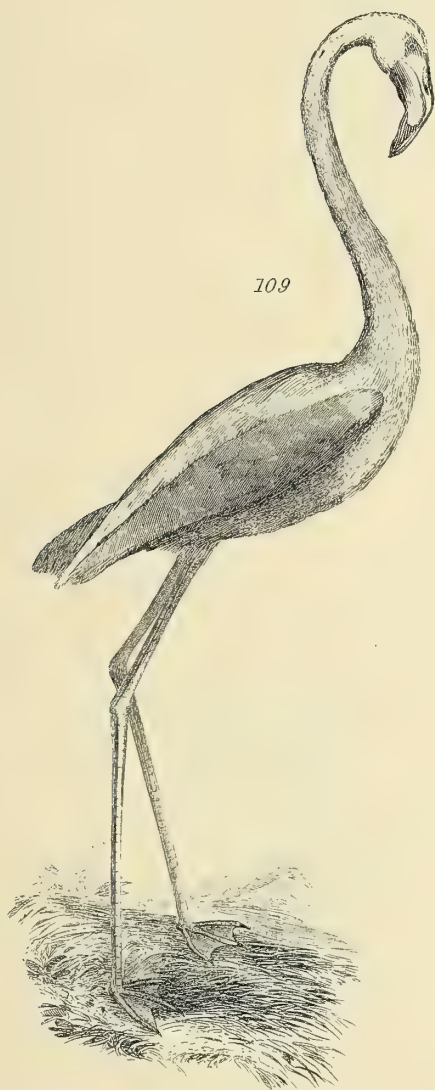




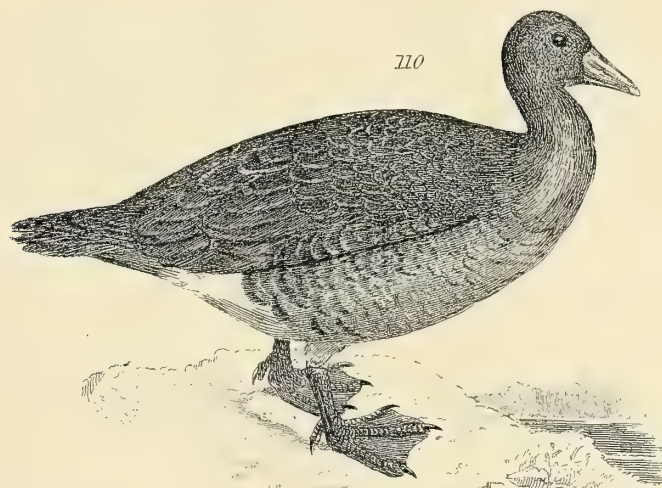
Order Natatores

Genera Phœnicopterus, Anser, Cereopsis.

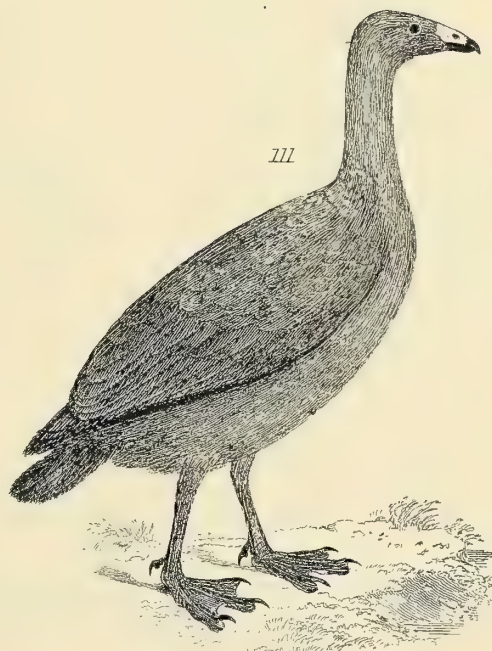
Family Anatidæ



Phœnicopterus Ruber *Flamingo*



Anser Ferus *Wild Goose*



C. Novæ Hollandiæ *New Holland Goose*



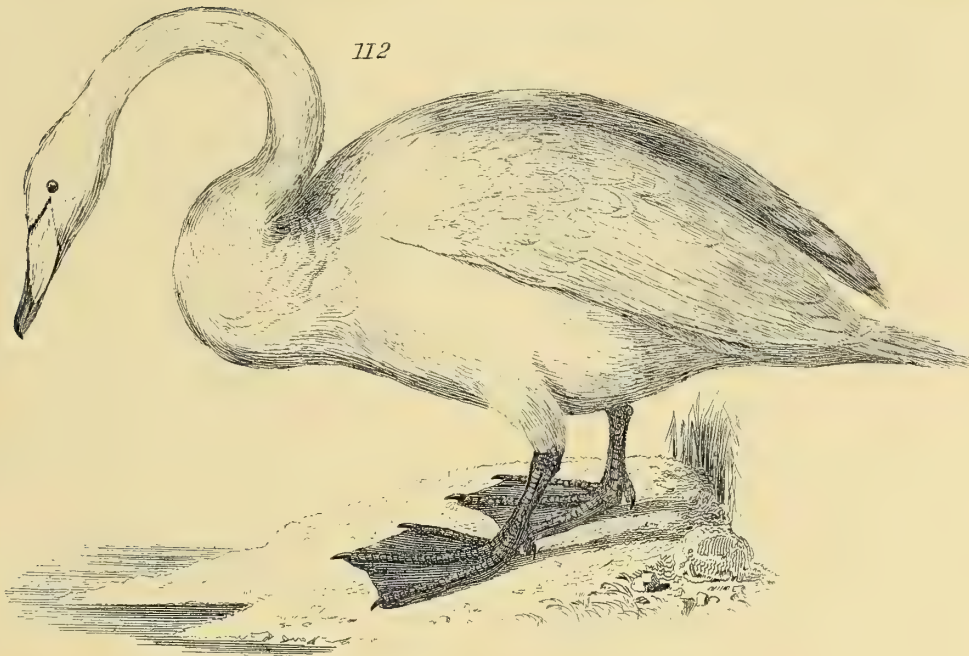




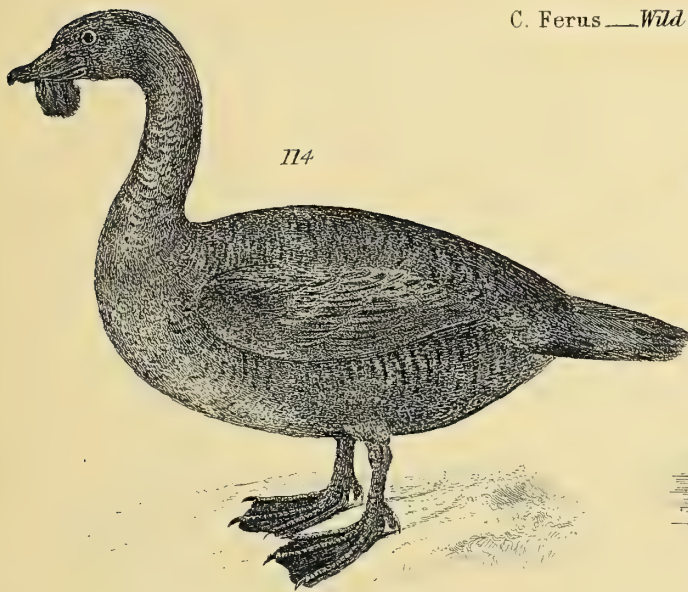
Order Natatores.

Genera Cygnus, Spatula, Hydrobates, Mergus.

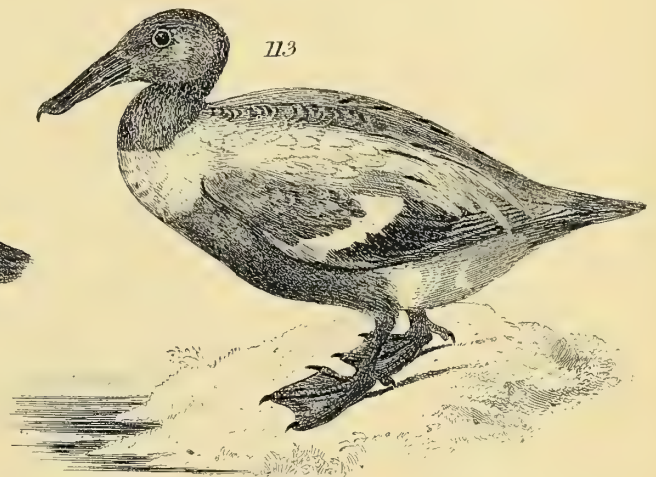
Family Anatidæ



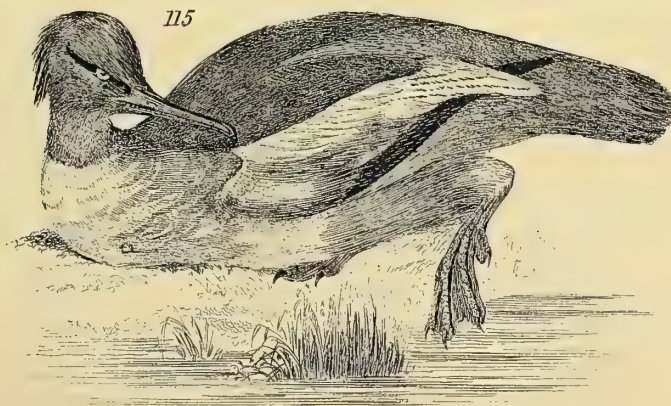
C. Ferus — Wild Swan.



H. Lobatus — Lobated Duck.



S. Clypeata Shoveller



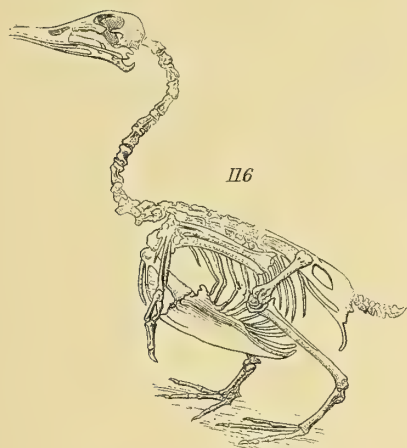
M. Merganser — Goosander





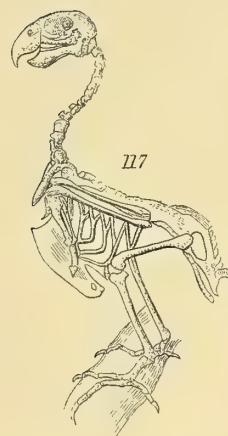


Skeletons.



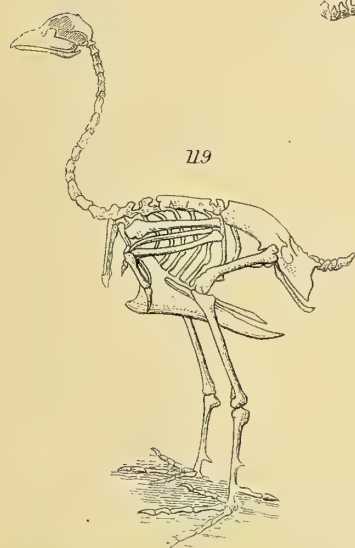
116

*Anas boschas* — *Wild Duck*.



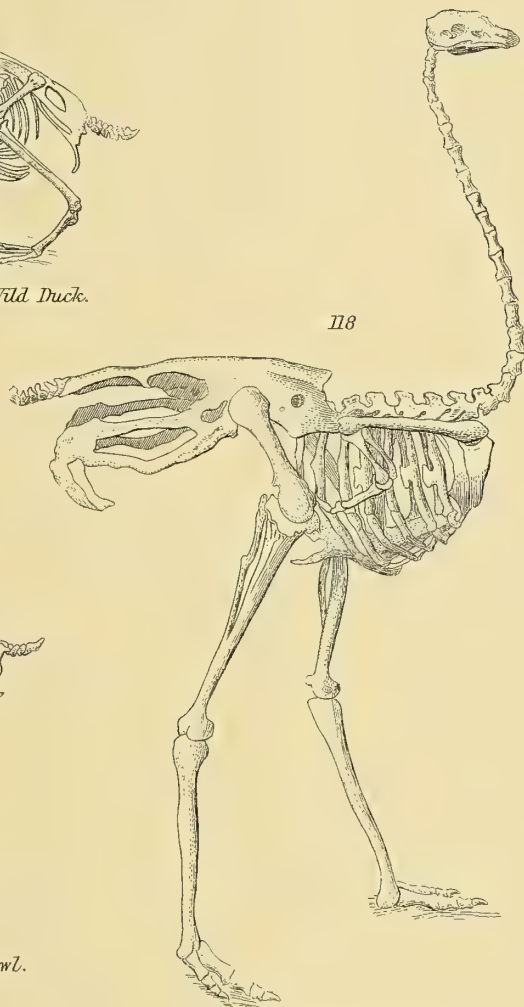
117

*Macrocerus macao* — *Macaw*.



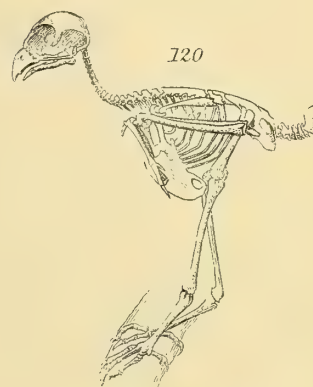
119

*Gallus domesticus* — *Domestic Fowl*.



118

*Struthio camelus* — *Ostrich*.



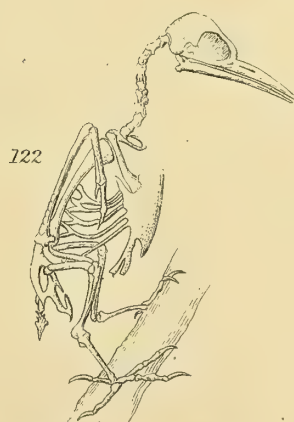
120

*Falco æsalon* — *Merlin*.



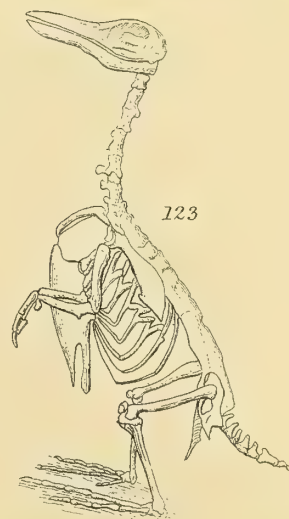
121

*Strix flammea* — *Barn Owl*.



122

*Gecinus viridis* — *Green Woodpecker*.



123

*Eudyptes demersa* — *Jackass Penguin*.







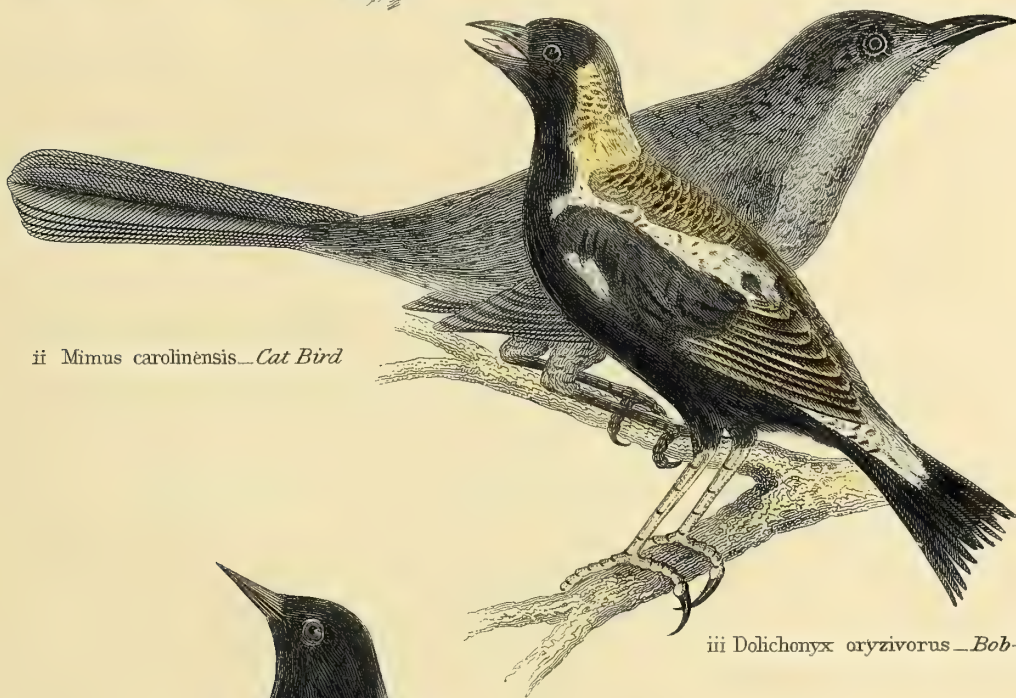
Order, Insectores

BIRDS.

Families {  
Caprimulgidae  
Sturnidae  
Turdidae



i Antrostomus vociferus—Whip-poor-will



ii Mimus carolinensis—Cat Bird



iii Dolichonyx oryzivorus—Bob-o-link

iv Icterus baltimore—Baltimore Oriole



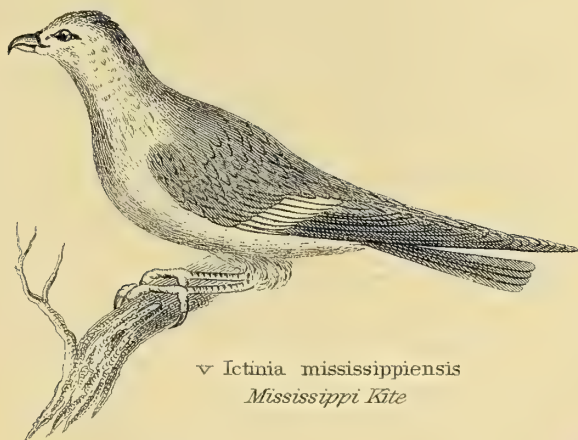




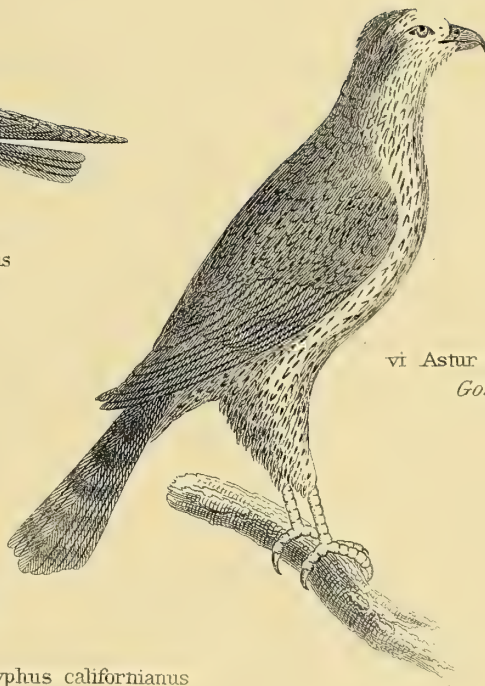
B I R D S .

Order, Raptores

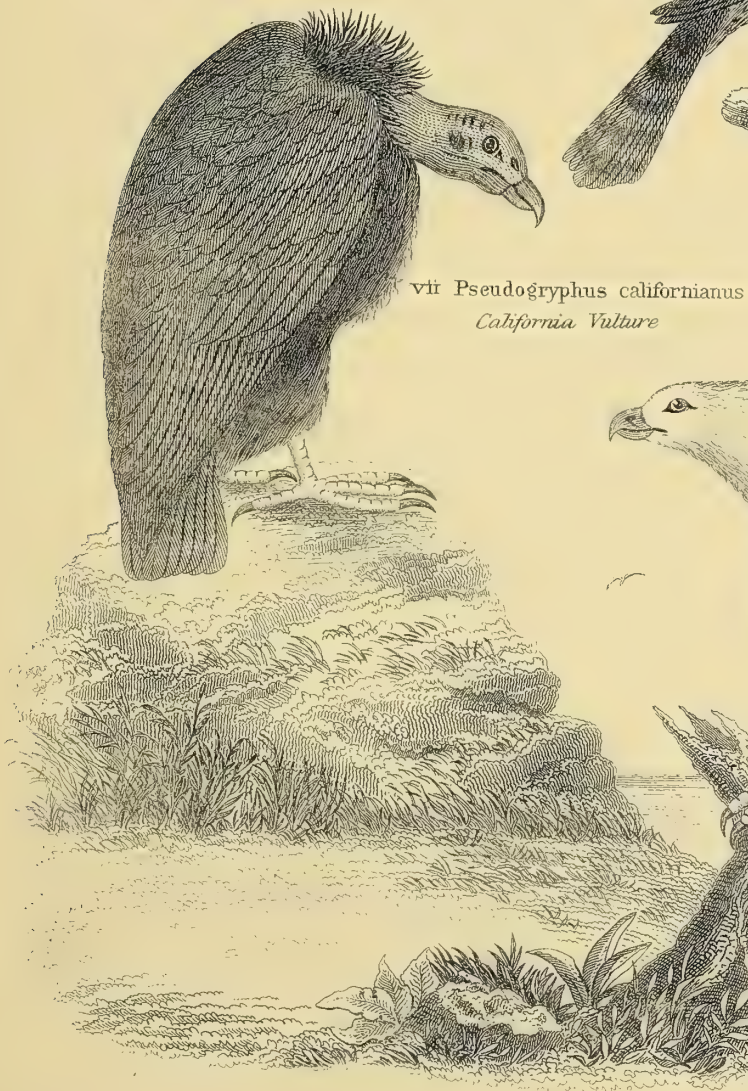
Families { Falconidæ  
Vulturidæ



v *Ictinia mississippiensis*  
*Mississippi Kite*



vi *Astur atricapillus*  
*Goshawk*



vii *Pseudogryphus californianus*  
*California Vulture*



viii *Haliaeetus leucocephalus*  
*Bald Eagle*







Orders {  
Insectores  
Rasores

B I R D S .

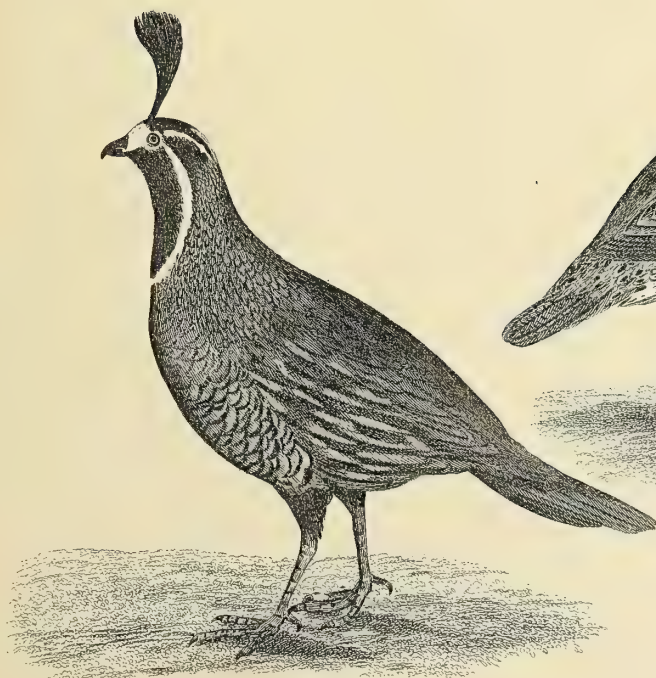
Families {  
Icteridæ  
Corvidæ



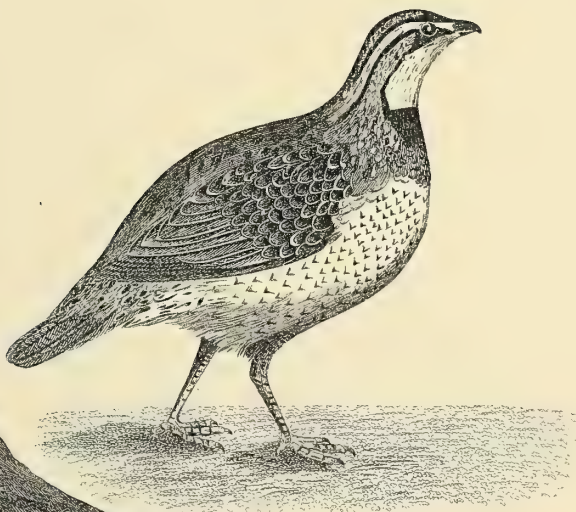
ix Molothrus pecoris—Cow Bird



x Cyanurus cristatus—Blue Jay



xii Lophortyx californicus—California Quail



xi Ortyx virginianus—Quail



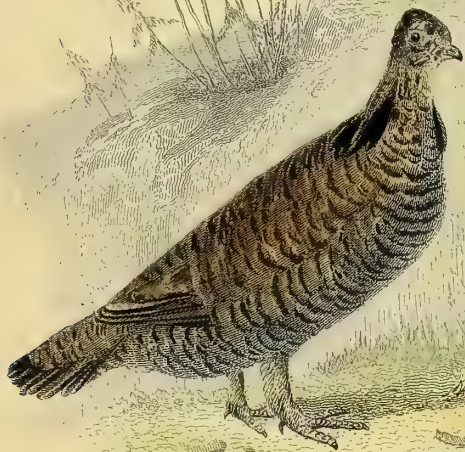
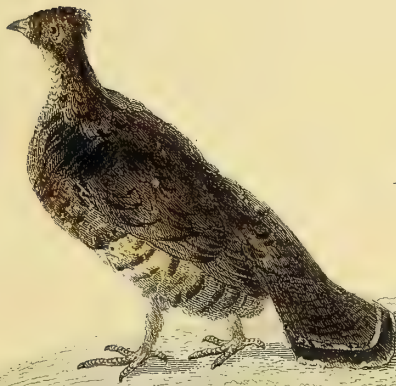




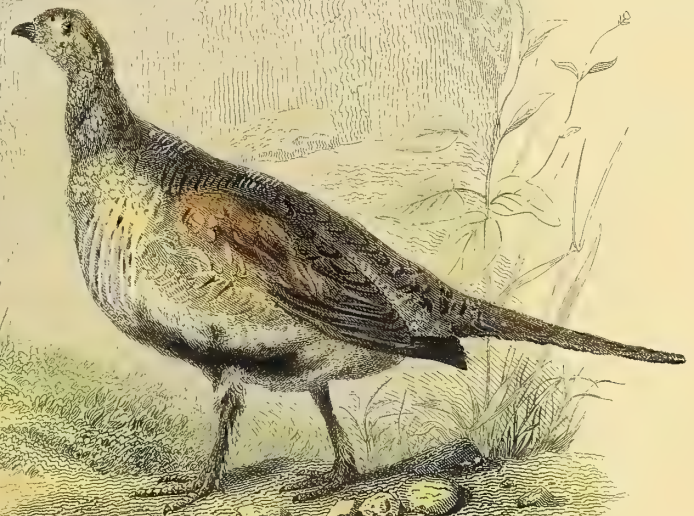
Order Rasores

Family { Tetraonidæ.  
Meleagridæ.

xiii Bonassa umbellus  
*Ruffed Grouse*



xiv Cupidonia cupido  
*Prairie Chicken*



xv Centrocercus urophasianus  
*Sage Cock*

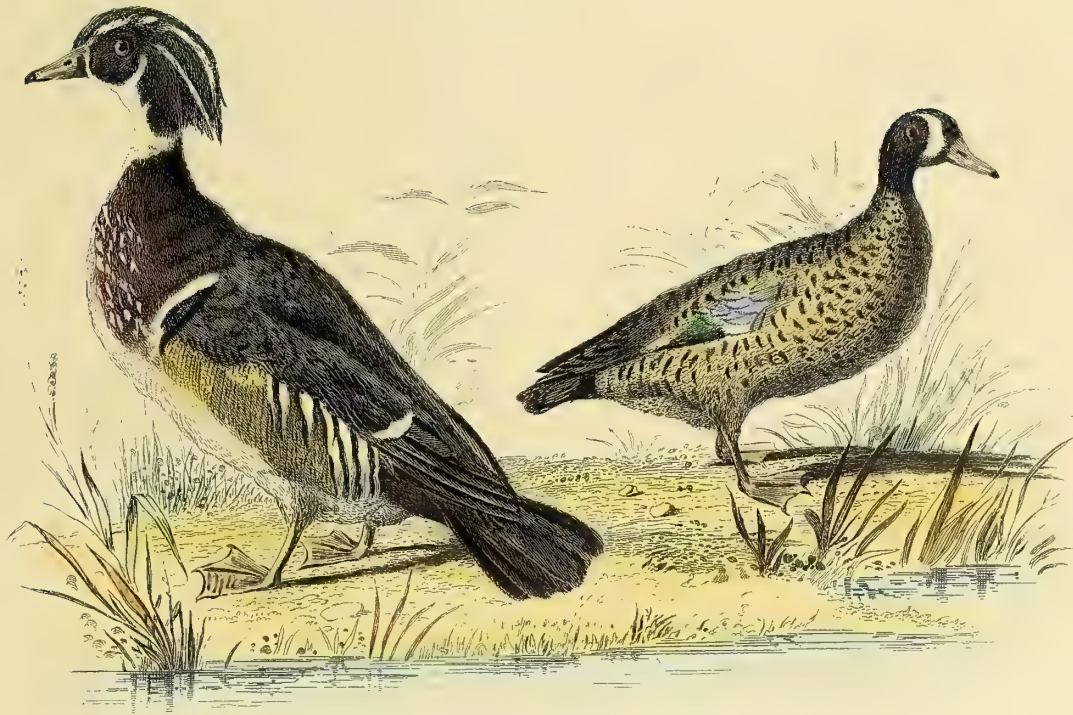


xvi Meleagris gallopavo  
*Wild Turkey*



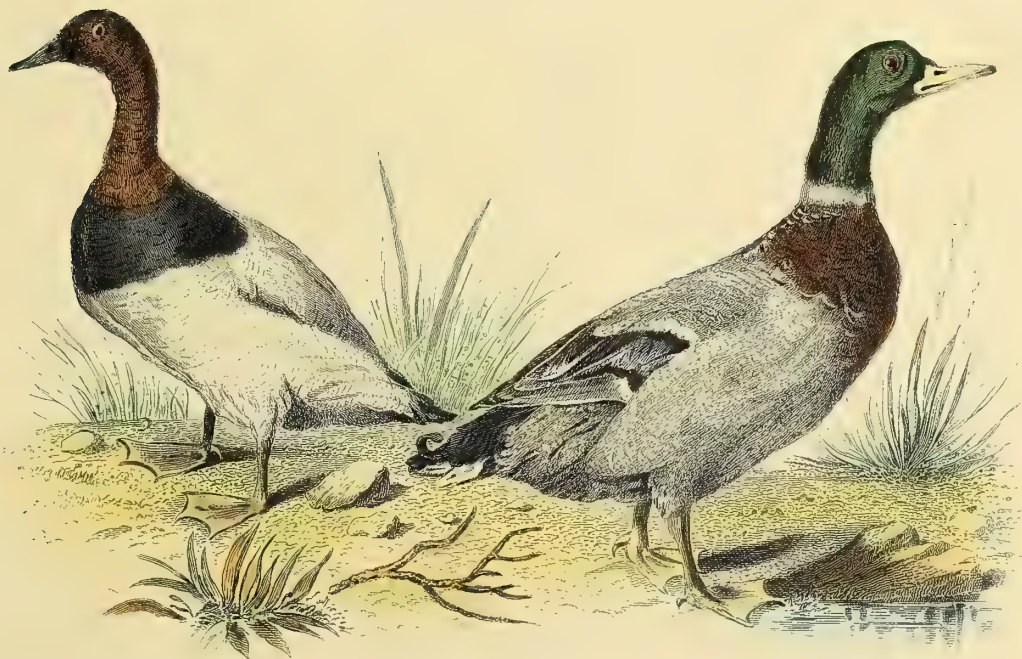






xviii *Aix sponsa*—Wood Duck.

xvii *Querquedula discors*—Blue-winged Teal



xx *Fuligula vallisneria*—Canvas-back Duck.

xix *Anas boschas*—Mallard Duck.





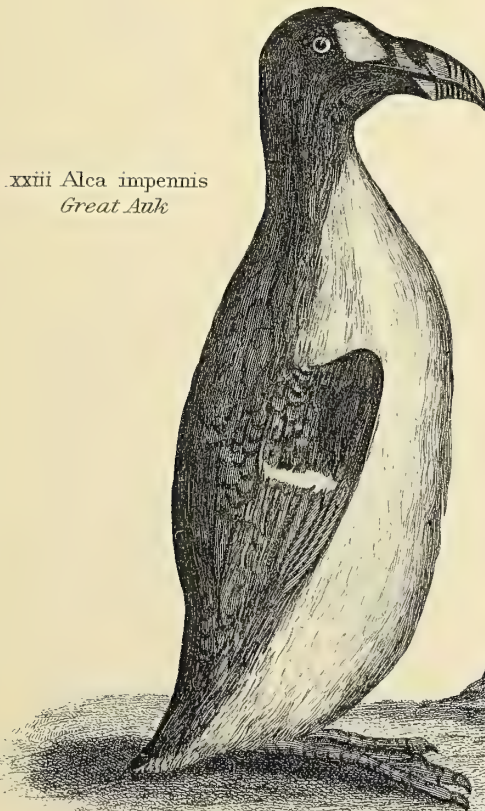


Order { Grallatores  
Natatores

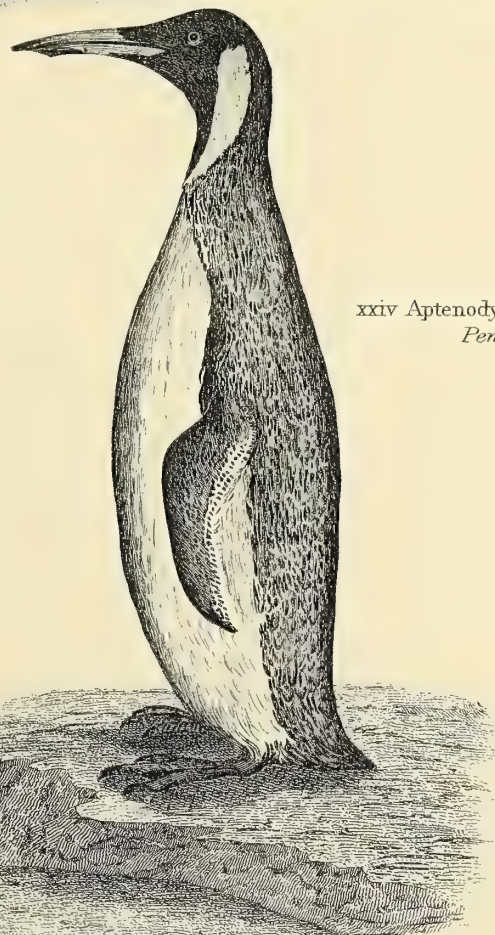
Families { Tantalidæ  
Tachypetidæ  
Alcidæ

xxi *Aramus giganteus*  
*Crying Bird*

xxii *Tachypetes aquilus*  
*Frigate Bird*



xxiii *Alca impennis*  
*Great Auk*



xxiv *Aptenodytes patagonica*  
*Penguin*









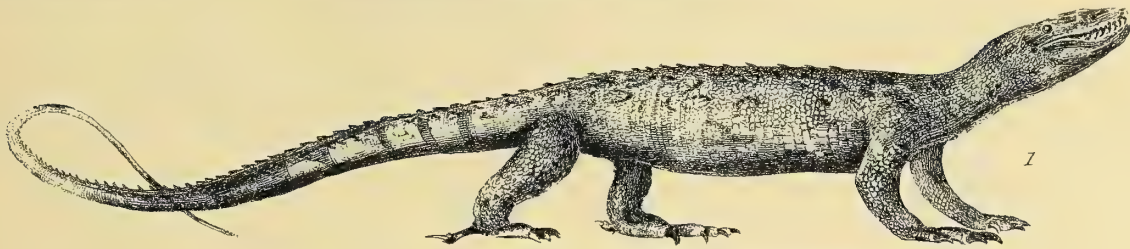
# REPTILES.

PLATE 1

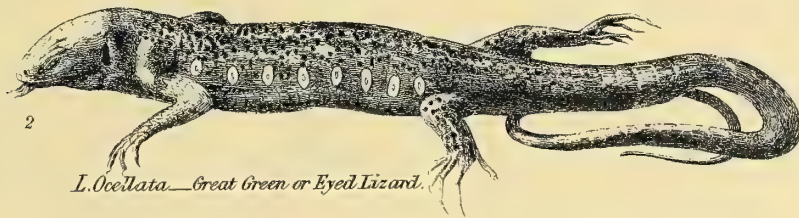
Order Sauria (Lizards)

Genera Monitor, Lacerta, Pseudopus, Pygopus, Scincus, Seps.

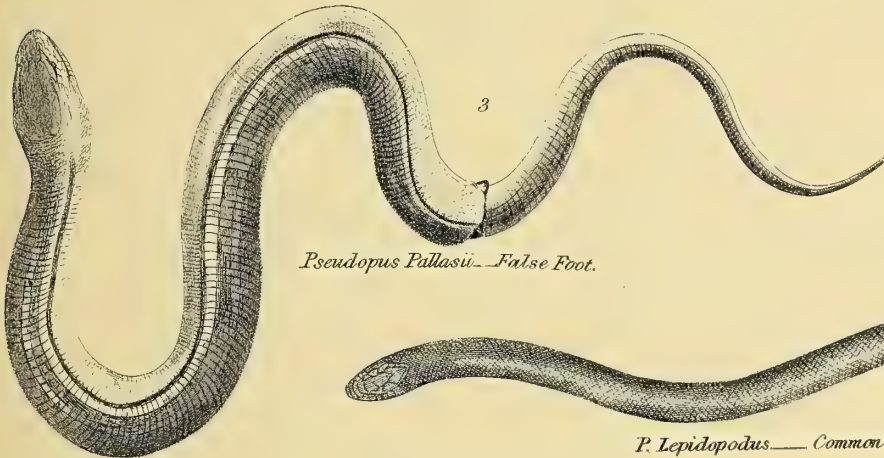
Sub order Leptoglossæ (Slender tongues)



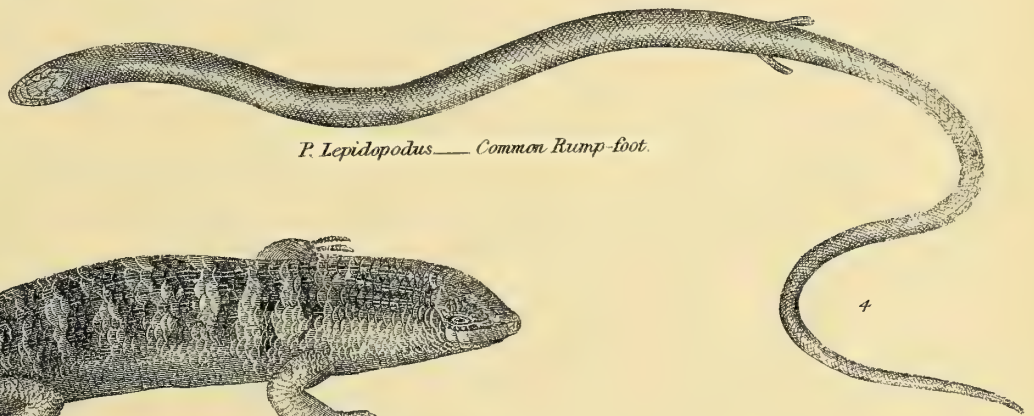
*M. Niloticus*—Nilotic Monitor.



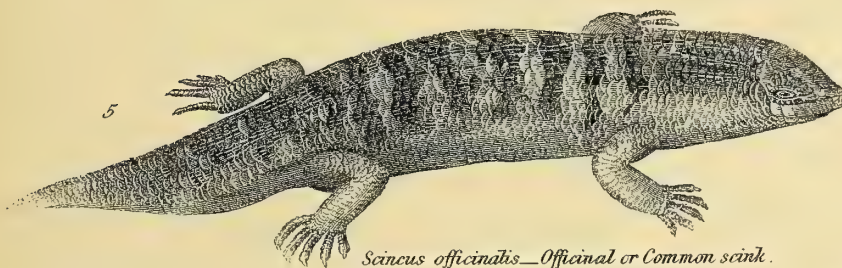
*L. Ocellata*—Great Green or Eyed Lizard.



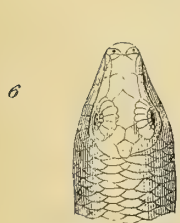
*Pseudopus Pallasii*—False Foot.



*P. Lepidopodus*—Common Rump-foot.



*Scincus officinatus*—Official or Common skink.



Head of Skink

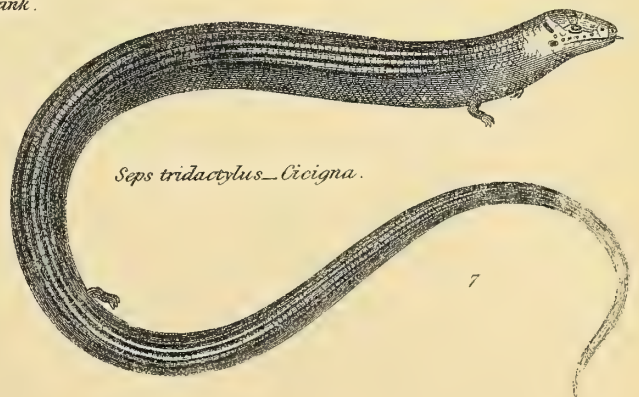


Hind Leg



Fore Leg

of *Cicigna*.



*Seps tridactylus*—Cicigna.







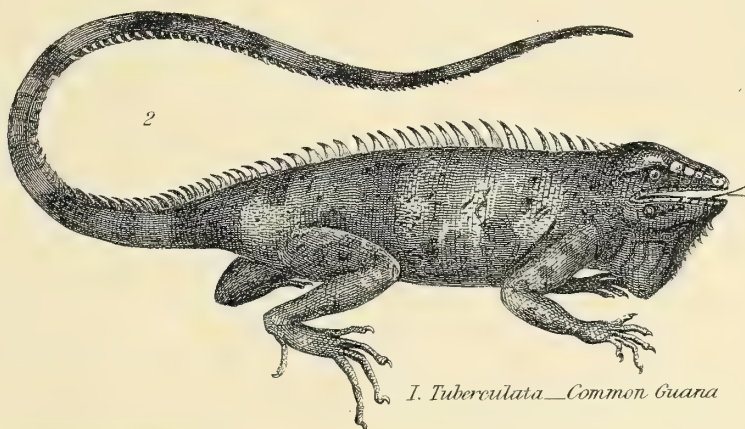
Order Sauria / Lizards.

Genera Tarentola Iguana Agama Dracunculus.

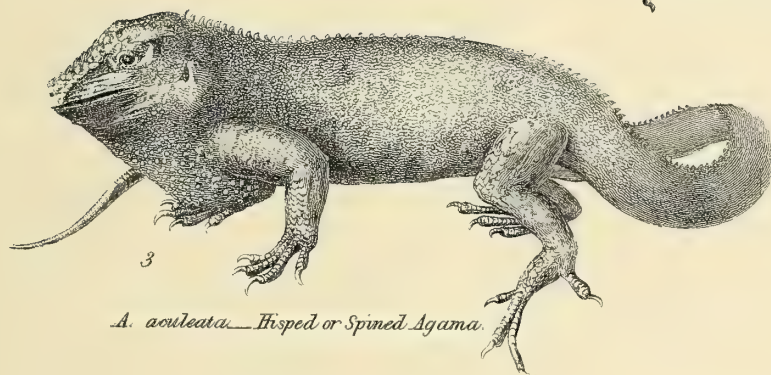
Sub order Pachyglossa / Thick tongues



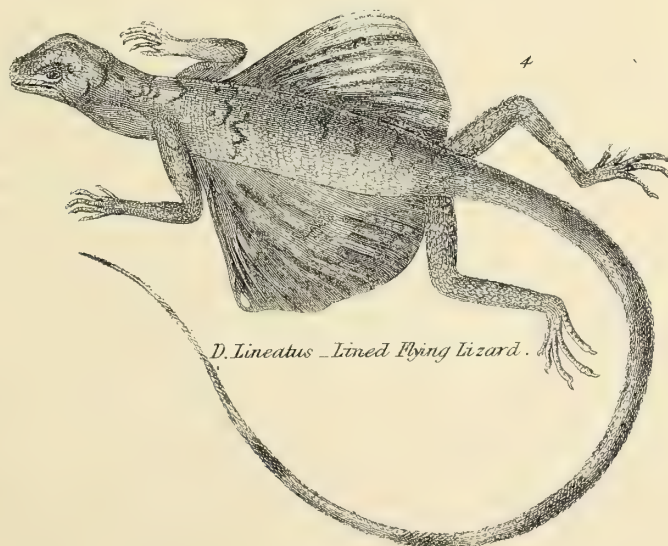
*T. Egyptiaca* — Egyptian Gecko



*I. Tuberculata* — Common Guiana



*A. aculeata* — Hissed or Spined Agama.



*D. Lineatus* — Lined Flying Lizard.

C. C. Pyne, del.

J. N. Allen, lith.



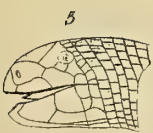
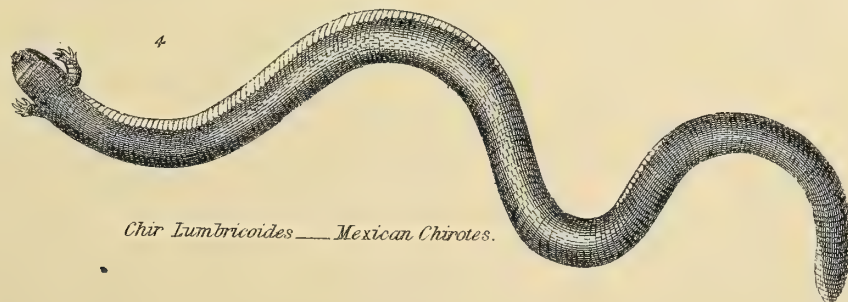
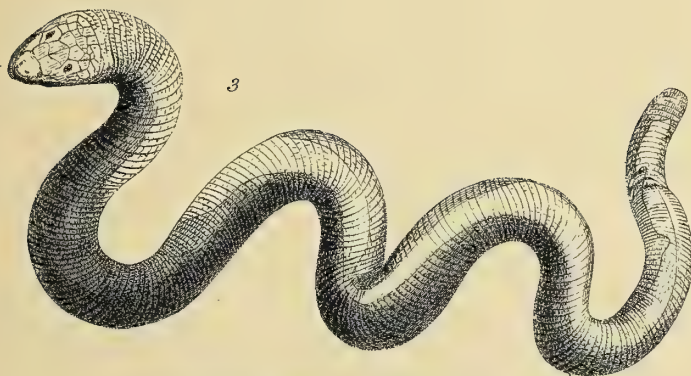
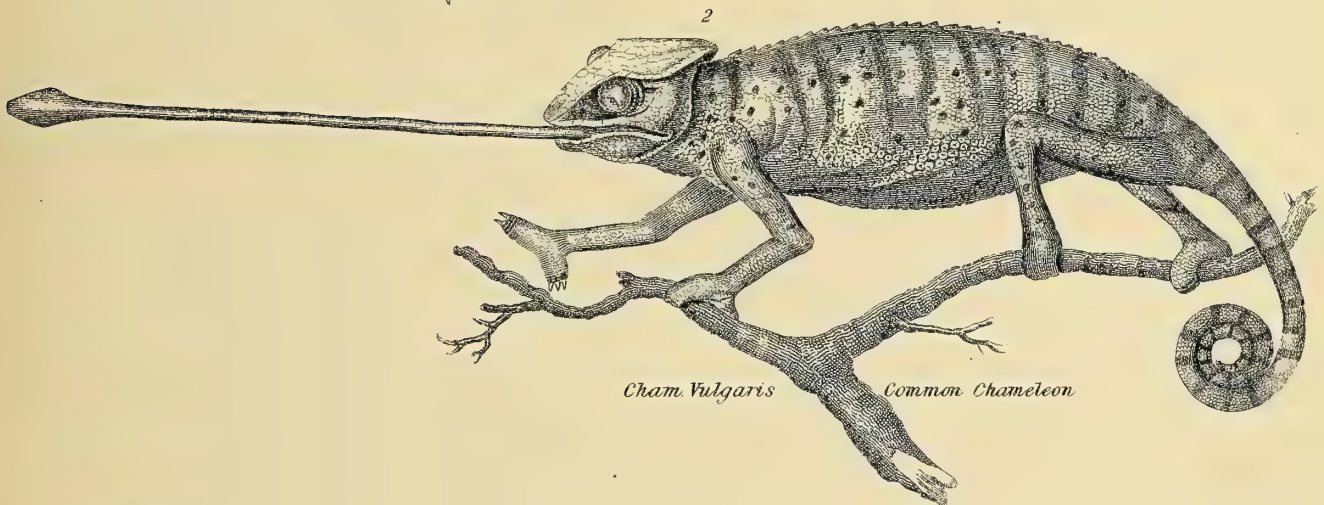
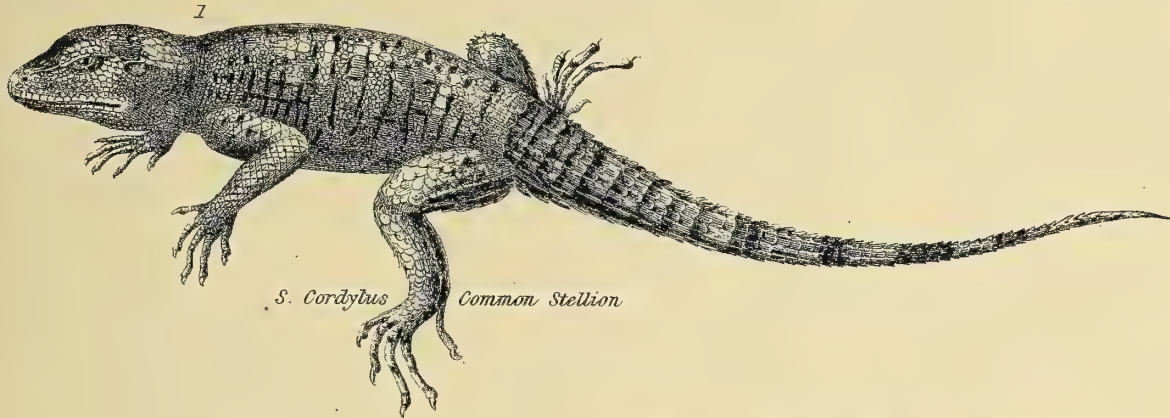




Orders { *Sauria* (Lizards)  
*Amphisbænia* (Double Walkers)

Genera *Stellio*, *Chameleo*, *Amphisbænia*, *Chirotes*.

Sub order *Pachyglossæ* (Thick tongues)









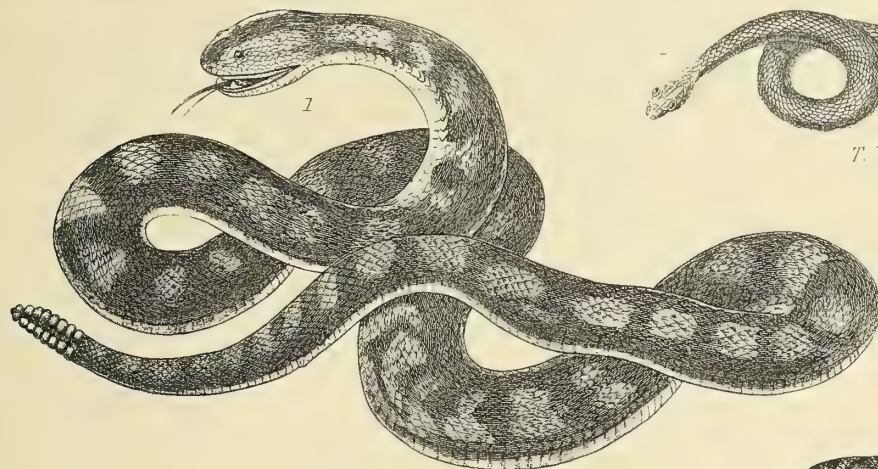
# REPTILES.

PLATE 4

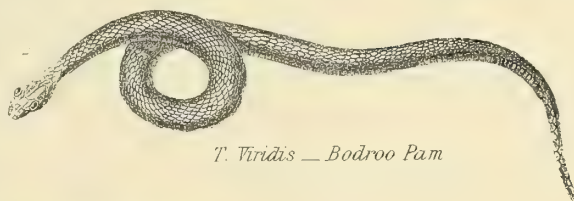
Order Ophidia (Serpents)

Genera Uropsophus, Trimesurus, Pelias, Cerastes, Pelamis, Acrochordus.

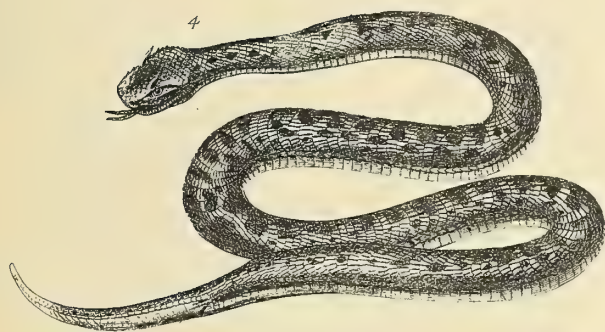
Sub order { Viperina (Viperine Serpents)  
Colubrina (Colubrine Serpents)



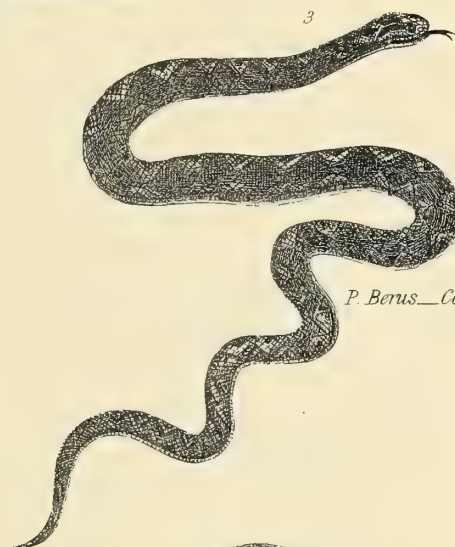
*U. durissus* — Banded Rattle Snake



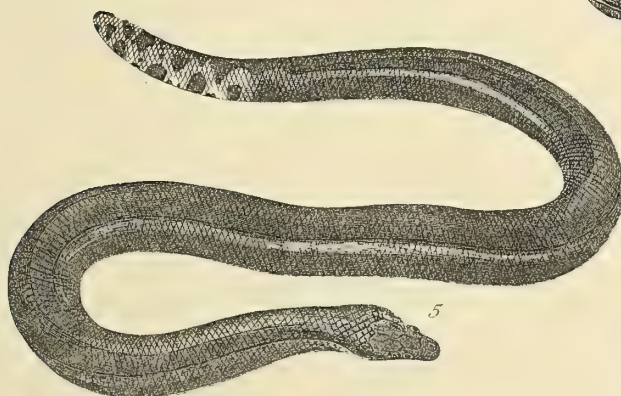
*T. Viridis* — Bodroo Pam



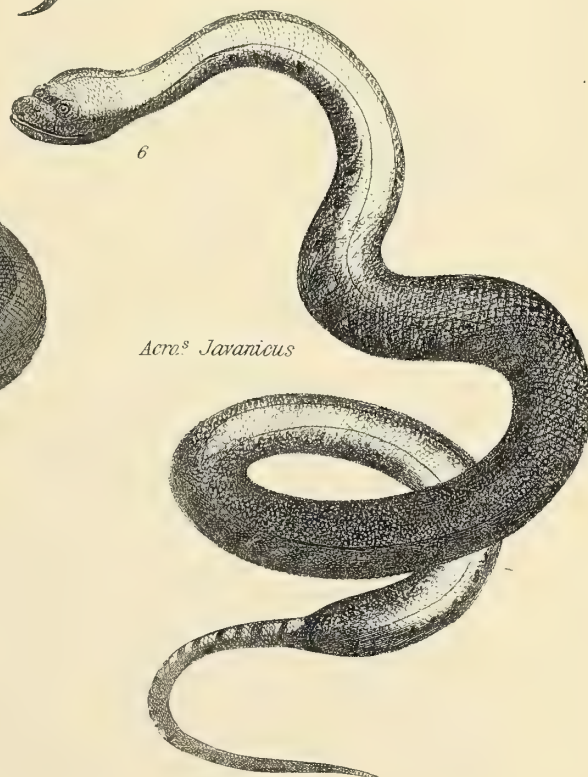
*Cera. Hasselquistii* — Cerastes



*P. Berus* — Common Viper



*Pel. Bicolor* — Blackbacked Pelamis



*Acro. Javanicus*







# REPTILES.

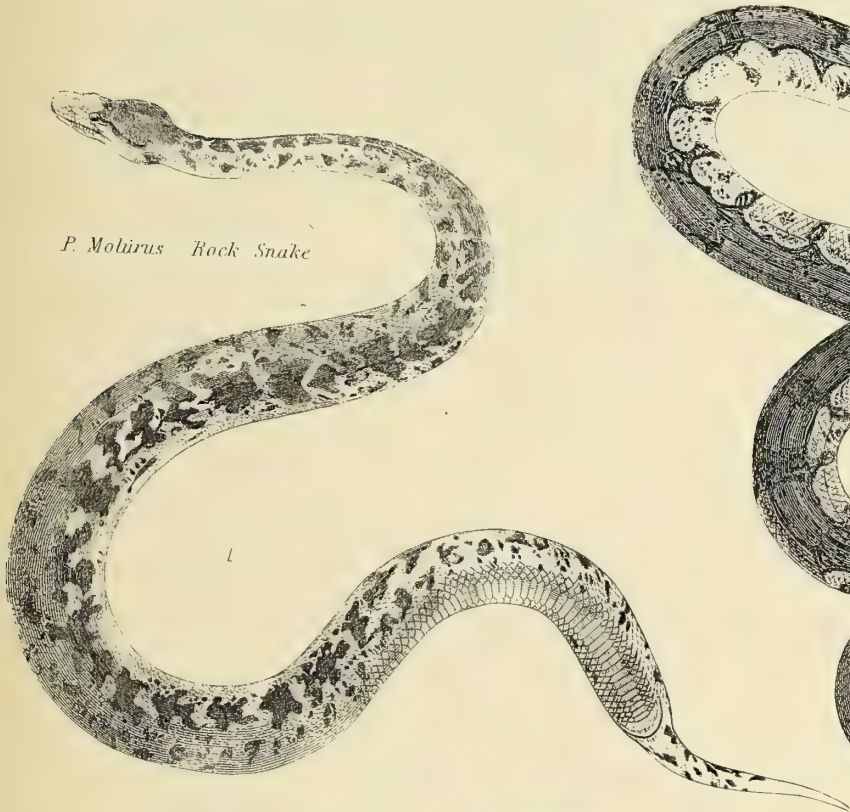
PLATE 5.

Order, Ophidia. (Serpents.)

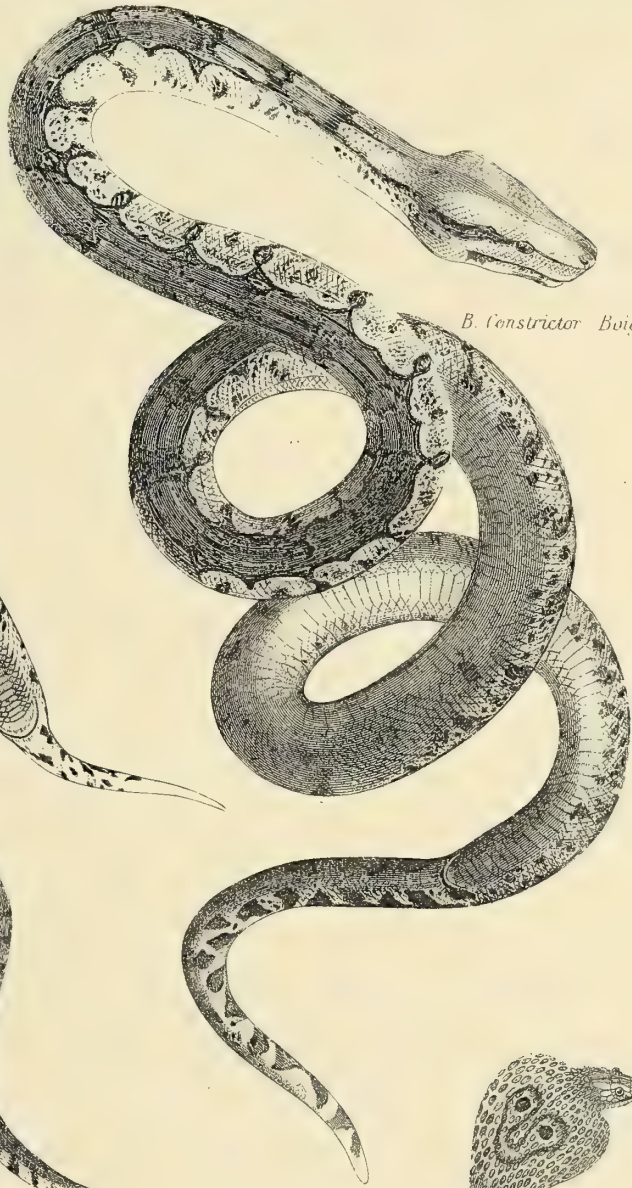
Genera. Python. Boa. Tortrix. Bungarus. Naja

Sub Order Colubrina. (Colubrine Serpents)

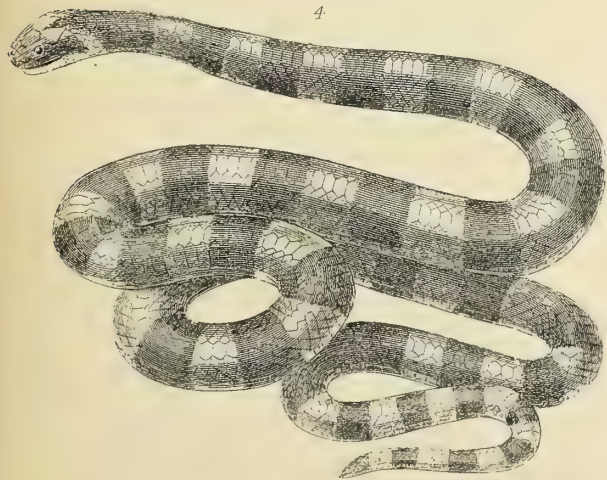
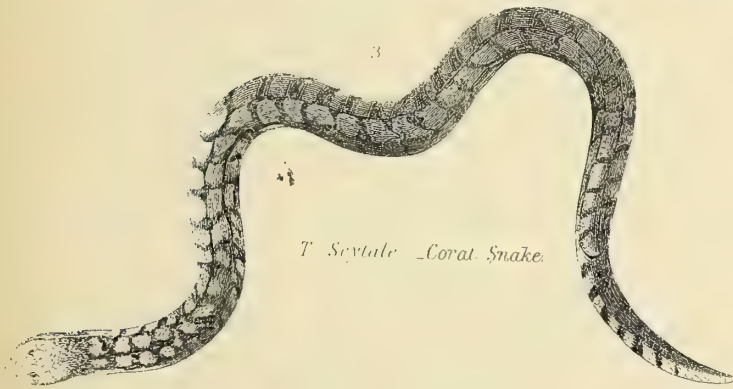
*P. Molurus* Rock Snake



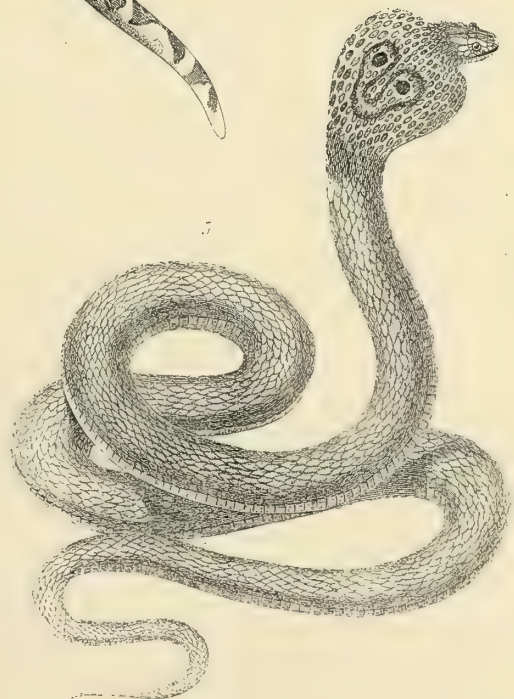
*B. Constrictor* Boianacu



*T. Scytale* Coral Snake



*B. fasciatus* Banded Bungarus.



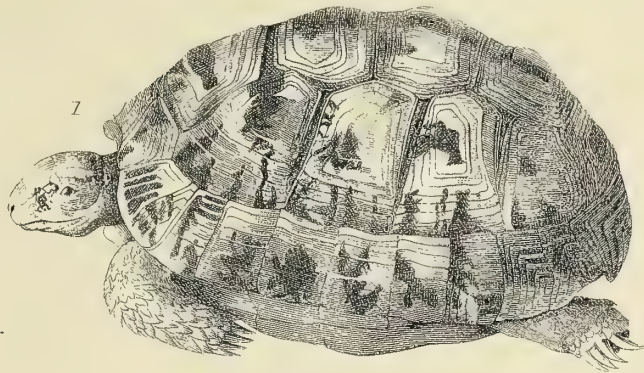
*N. tripudians* Cobra de Capello or Spectacled Snake



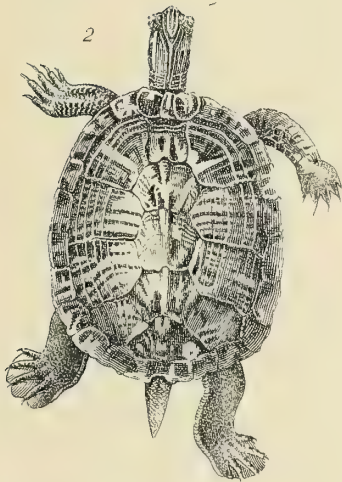




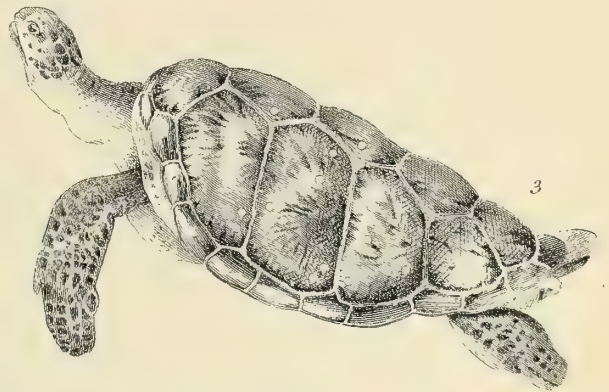
Order Chelonia (Tortoises & Turtles) Genera Testudo Emys Cistuda Chelonia Chelys Testudo



*T. Graeca* — Common Land Tortoise.



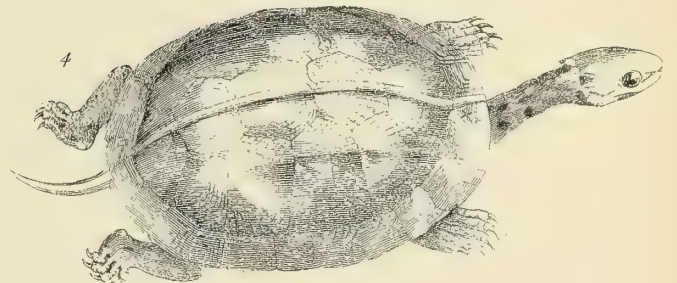
*T. Scripta* — Written Tortoise



*Chel. Virgata* — Cavy



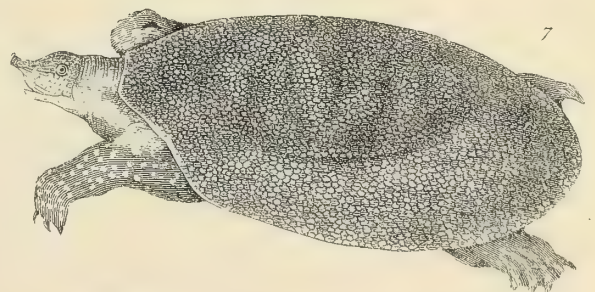
*Chelys Matamata* — matamata or Fimbriated Tortoise



*C. Trifasciata* — Three streaked Box Tortoise



Elongation of the snout



*T. Niloticus* — Tyrse or Soft Tortoise of the Nile.





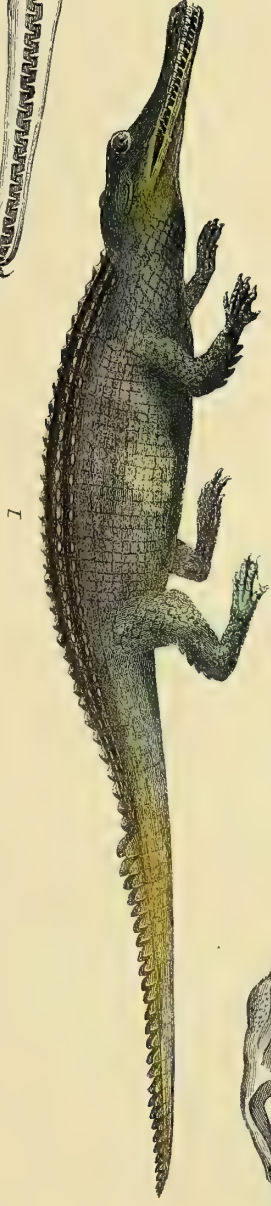
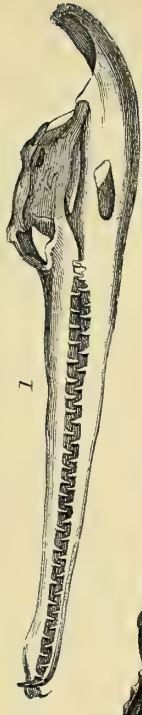


# REPTILES.

PLATE 7.

Order. Emydosauri. (Crocodiles & Alligators.)

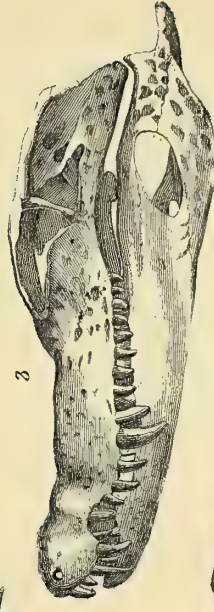
Genera. Gavialis, Crocodilus, Jacare.



*G. Gangeticus. Indian Crocodile or Gavial.*



*Cro. vulgaris. Nilotic Crocodile*



*J. Sclerops. Spectacled Alligator*



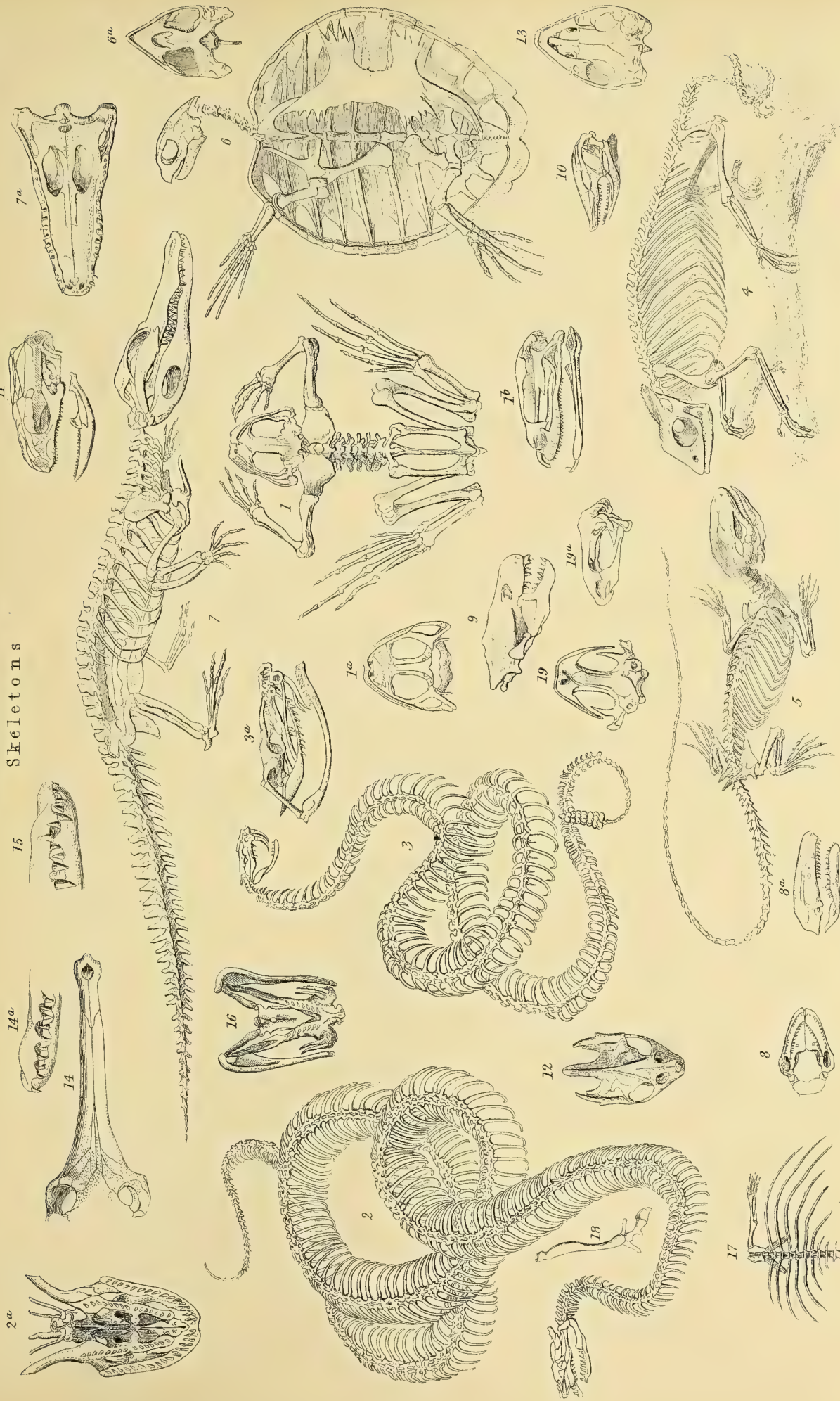




# REPTILES.

PLATE 8.

## Skeletons



- 1<sup>a</sup> 1. *Rana temporaria*. Common Frog.  
 2<sup>a</sup> 2. *Python molurus*. Rock Snake.  
 3<sup>a</sup> 3. *Urotaenia*. Banded Rattle Snake.  
 4. *Urotaenia*. Common Chameleon.  
 5. *Iguana tuberculata*. Common Iguana.  
 6<sup>a</sup> 6. *Chelonia carolina*. Turtle.  
 7<sup>a</sup> 7. *Alligator mississippiensis*. Alligator.  
 8<sup>a</sup> 8. *Crotalus glutinosus*. Gummy Snake.  
 9. *Amphisbama alba*. White Amphisbama.  
 10. *Scincus officinalis*. Official or Common Scink.  
 11. *Lacerta ocellata*. Green or Spotted Lizard.  
 12. *Triton cristatus*. Crested Newt.  
 13. *Bufo carolinensis*. Common Frog.  
 14<sup>a</sup> 14. *Gerrhonotus carolinensis*. Common Lizard.  
 15. *Crotalus viridis*. Green or Spotted Rattle Snake.  
 16. *Naja tripudians*. Cobra de Capelle.  
 17. *Draco volans*. Common Flying Lizard.  
 18. *Basiliscus*. Spiny-tailed Lizard.  
 19<sup>a</sup> 19. *Salpinctes obsoletus*. Salamander.







# AMPHIBIA.

PLATE 1.

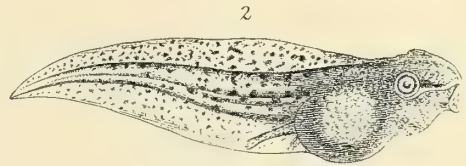
Order, Batrachia.

Genera, Rana, Ceratophrys, Hyla.

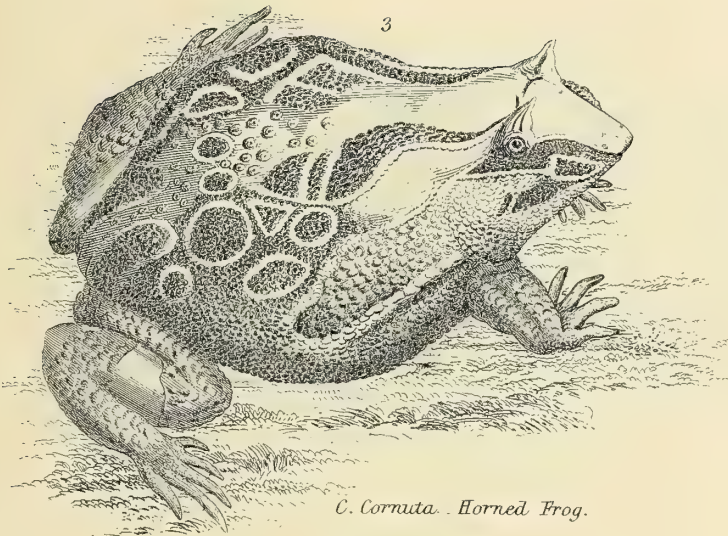
Sub-order, Salientia. (Leapers)



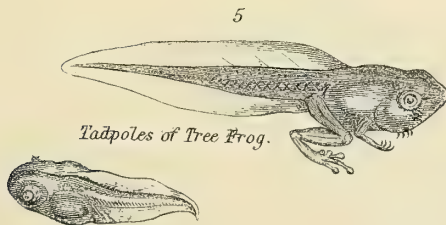
*R. Esculenta*.—Edible or Green Frog.



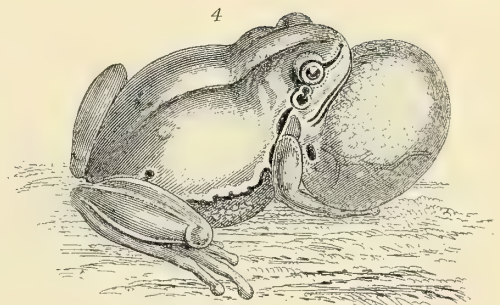
*Tadpole of Green Frog.*



*C. Cornuta*.—Horned Frog.



*Tadpoles of Tree Frog.*



*H. Arborea*.—Common Tree Frog.

IN AN







A M P H I B I A .

PLATE 2

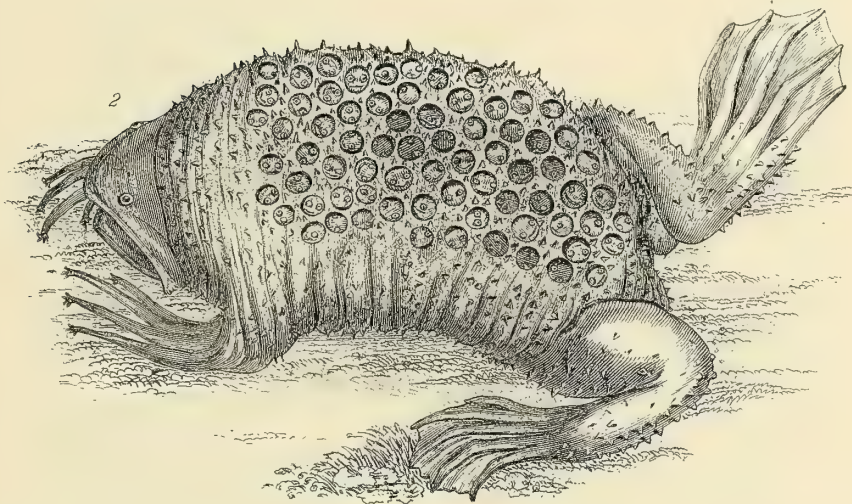
Order Batrachia

Genera Bufo, Pipa, Bombinator.

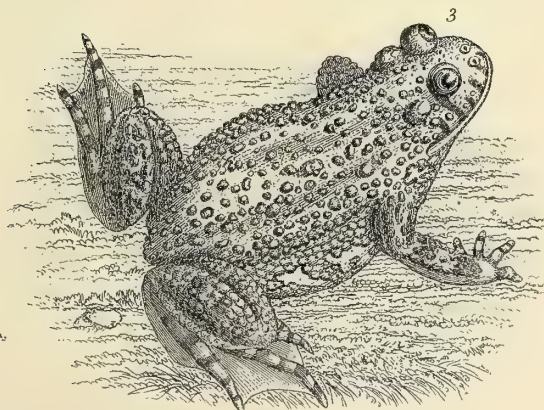
Sub order Salientia (Leapers)



*B. vulgaris* — Common Toad.



*P. americana* — Surinam Toad.



*Bom. igneus* — Yellow bellied Toad







# A M P H I B I A .

PLATE 3.

Order. Batrachia.

Genera, Protonopsis, Triton, Salamandra.

Sub-order. Gradientiæ (Walkers)



*P. torrida* Hellbender or Mud Devil.



*T. cristatus*. Common Warty Newt.



*S. maculosa*. Common, or Terrestrial Salamander.



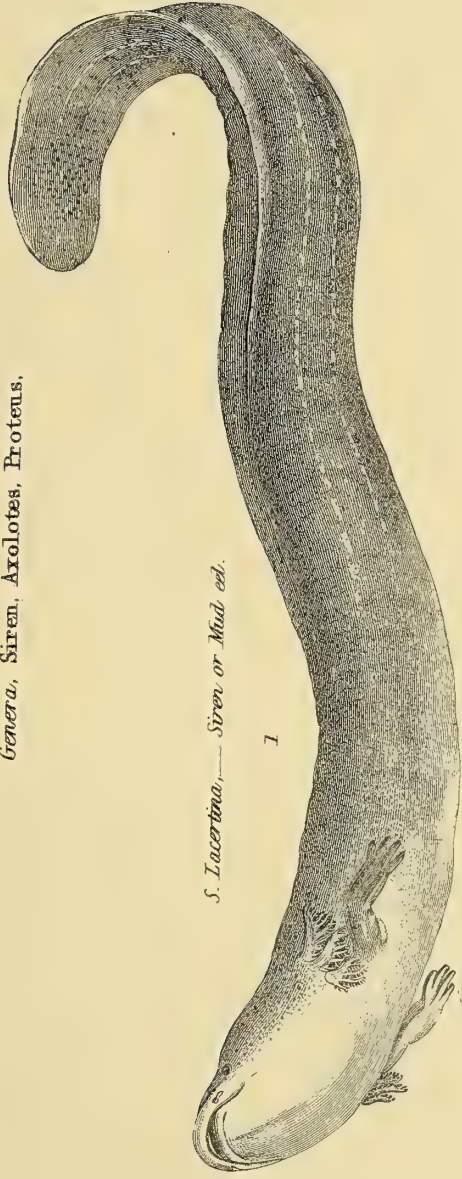




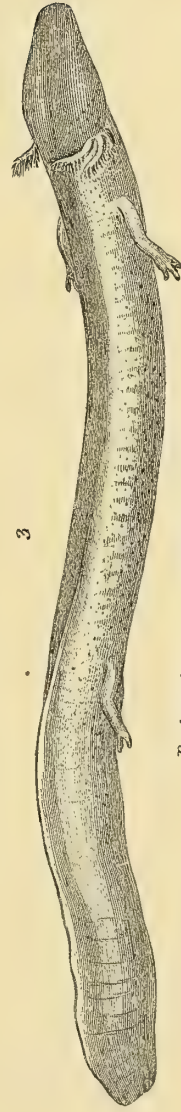
AMPHIBIA.

Order, Neantlia.

Genera, Siren, Axolotes, Proteus.



*S. Iacertina*,— *Siren* or *Mud eel*.



*P. Anguinus*,— *Snake-like Proteus*.



*A. Mexicanus*,— *Axolotl*.

Order, Pseudophidia.

Genera, Cæcilia.



*C. Glutinosus*,— *Glutinous Cæcilia*.







# FISHES.

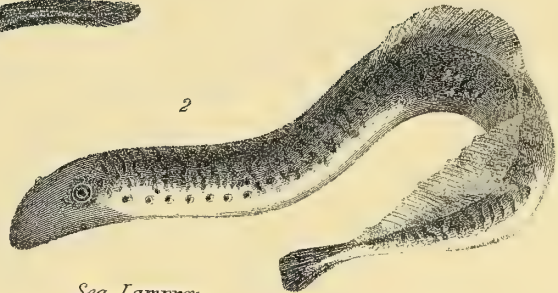
PLATE 1

Orders { Dermopteres 1 2  
Malacopteres  
Sub Div Serpentiiform Apodals 3 6

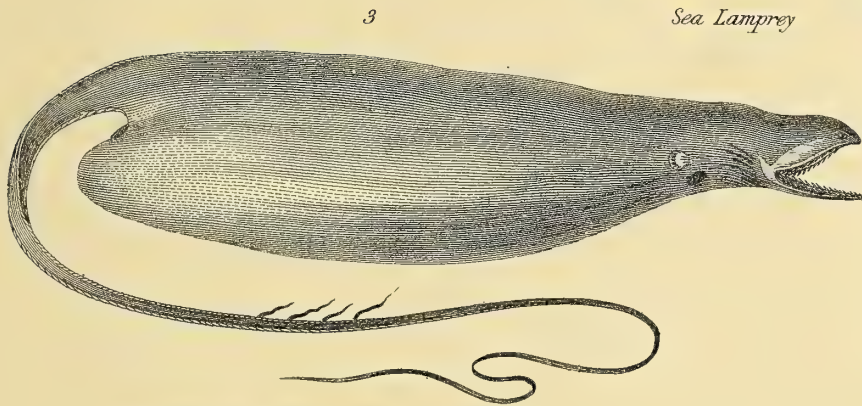
Families { Myxinoids 1  
Petromyzontids 2  
Murries 3 4  
Eels 5 6



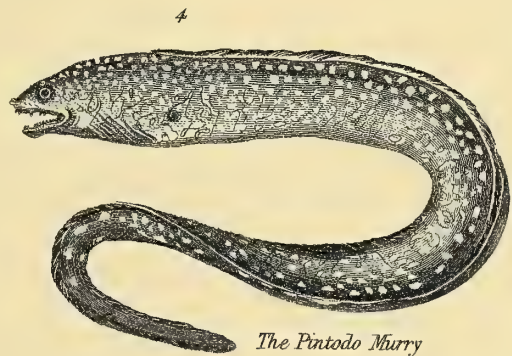
*Glutinous Hag*



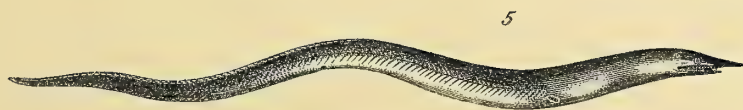
*Sea Lamprey*



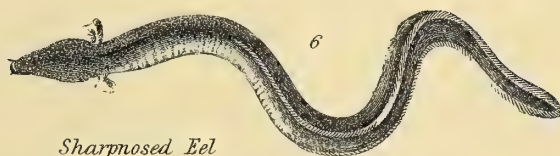
*Ophio gnathus ampullaceus Barrellfish*



*The Pintado Murry*



*Sphag. Rostratus*



*Sharpnosed Eel*





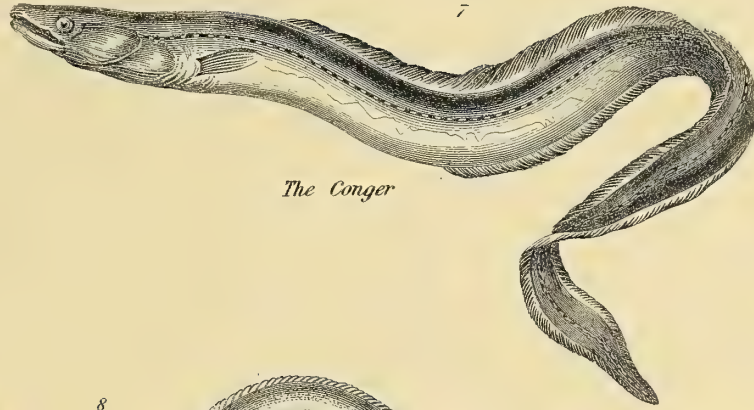


# FISHES.

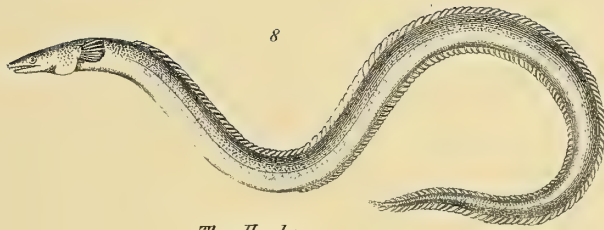
PLATE 2

Order Malacopteres  
Sub div. {Serpentiform Apodals 7 8  
          {Jointed-rayed Apodals 9 11

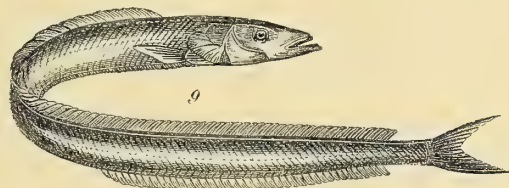
Families { 7 Congers  
              { 8 Ophichthids  
              { 9 Ophidiids  
              { 10 Ammodytes  
              { 11 Gymnotes



*The Conger*



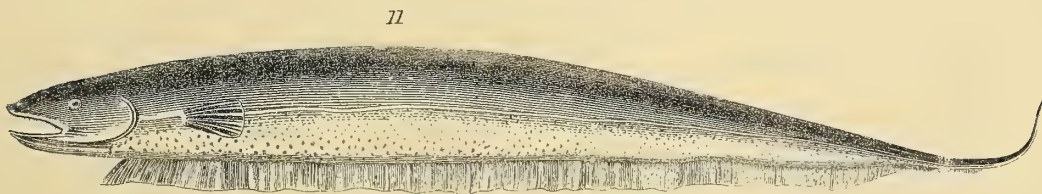
*The Hyala*



*The Sand Lance*



*Montagu's Gymnele*



*The Even-tipped Gymnote*







Order. Malacopecteres.  
Subdiv. Abdominals.

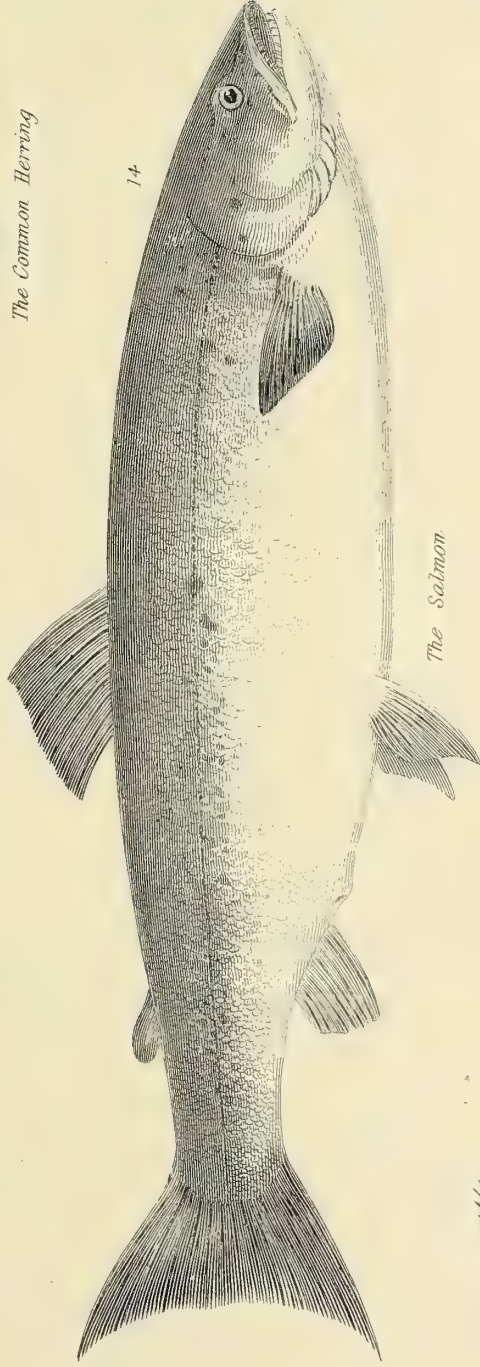
Families	Leptocephaloids .	12
	Herrings .	13
	Salmon .	14-15
	Scopeloides .	16
	Herring pikes .	17



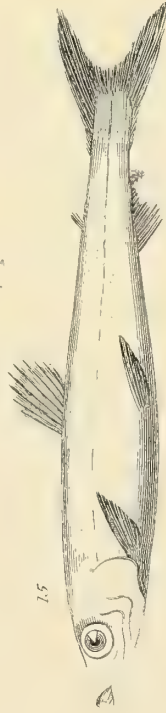
*The Morris*



*The Common Herring*



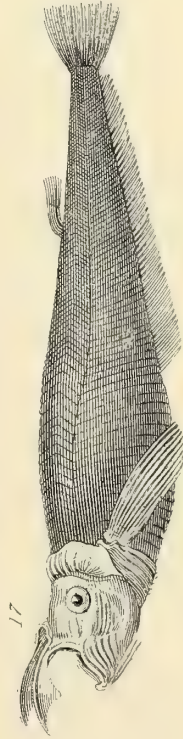
*The Salmon*



*The Mediterranean Argentine*



*The Petid Nauty*



*The Cayenne Odontognathe*





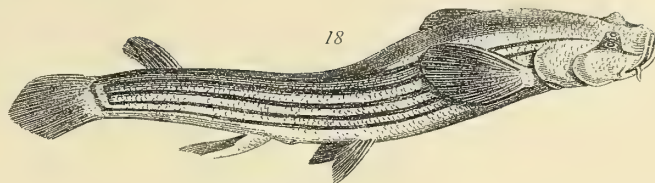


# FISHES.

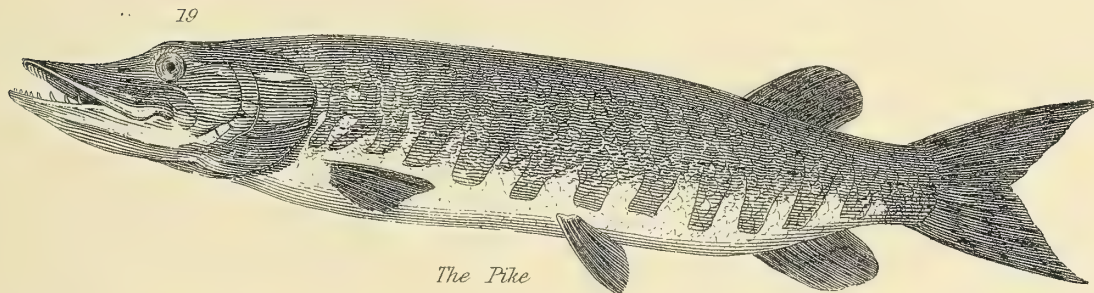
PLATE 4

Order Malacopteres  
Sub div. Abdominals Cont.<sup>d</sup>

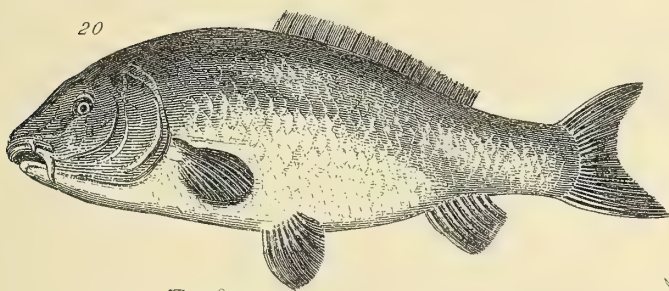
Families {  
Cyprinodonts 18  
Pikes 19  
Carps 20  
Loaches 21  
Siluroids 22 23



Four-eye



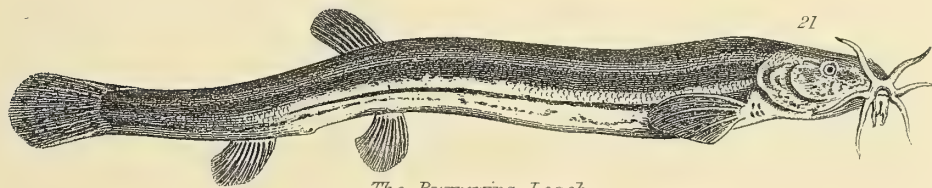
The Pike



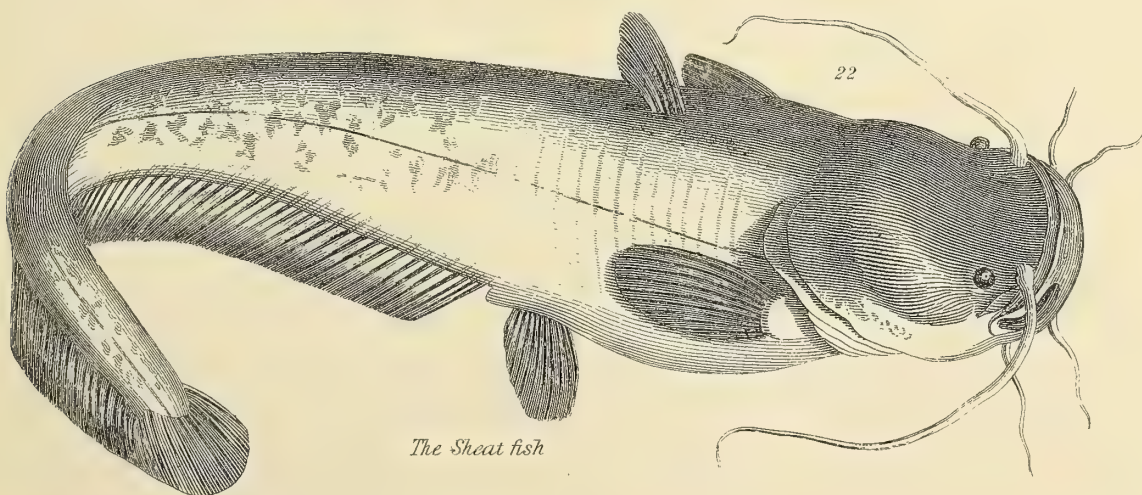
The Carp.



The Arge



The Burrowing Loach



The Sheat fish





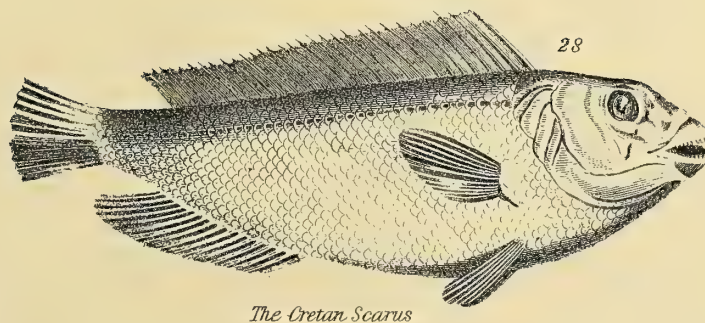
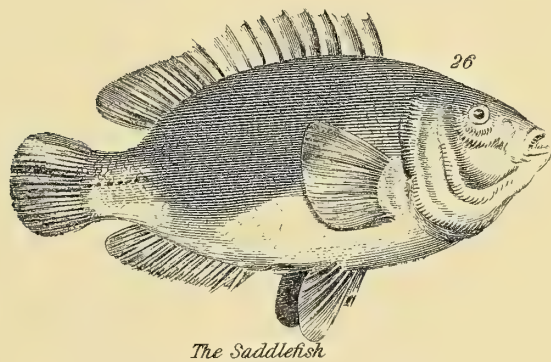
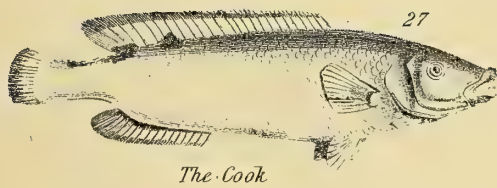
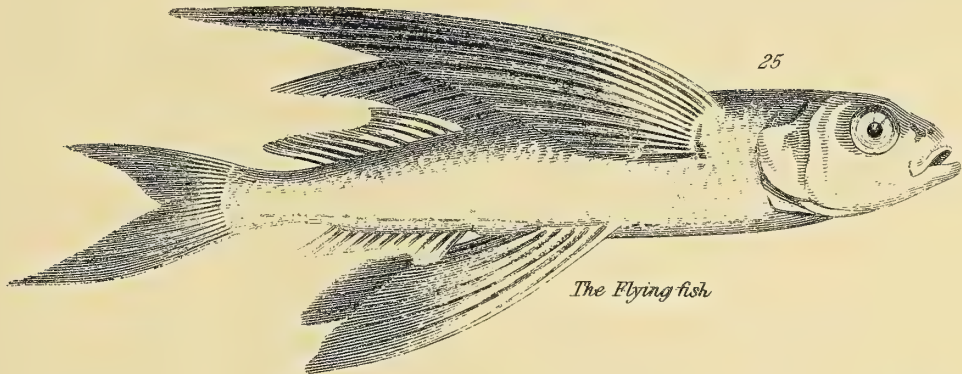


# FISHES.

PLATE 5

Order Pharyngognaths 25 28

Families {  
Goniodonts 24  
Mackerel pikes 25  
Cteno-labroids 26  
Cyclo-labroids 27 28



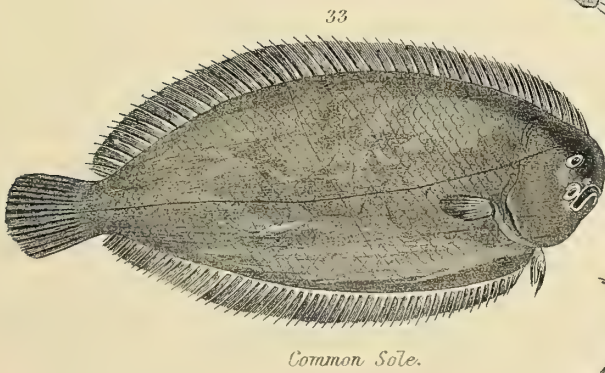
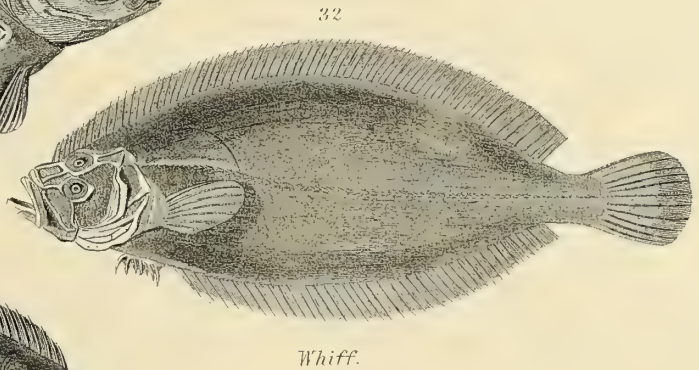
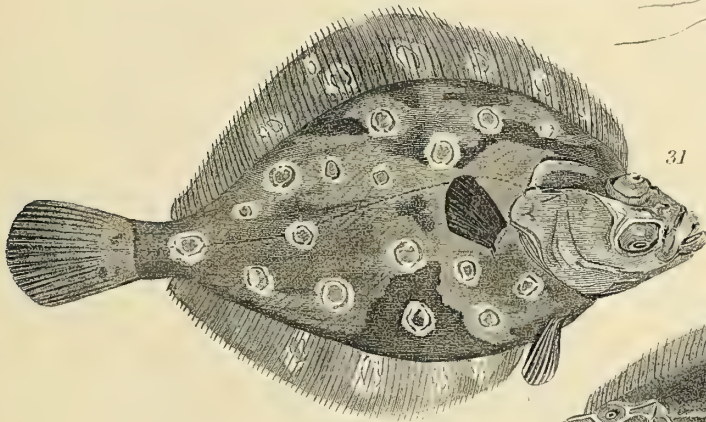
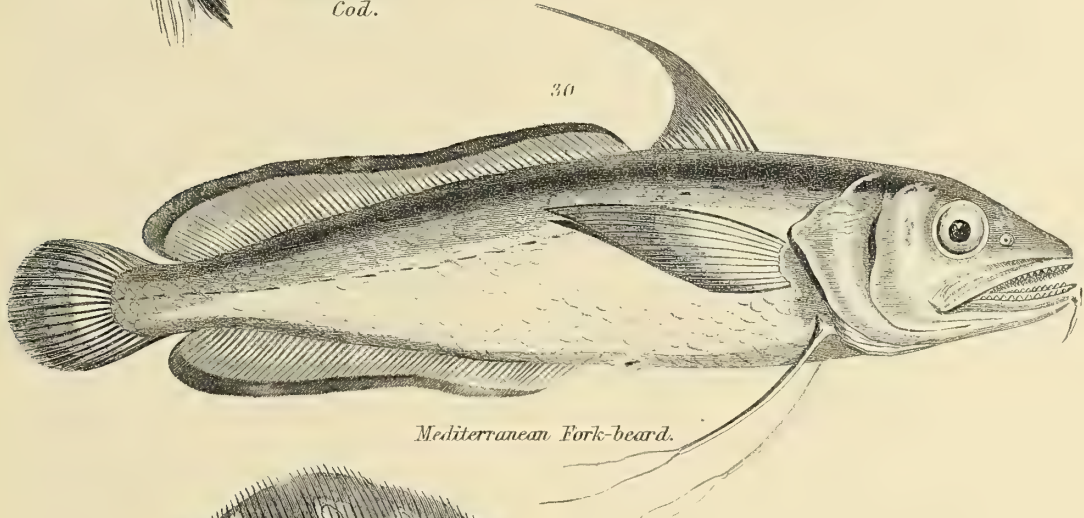
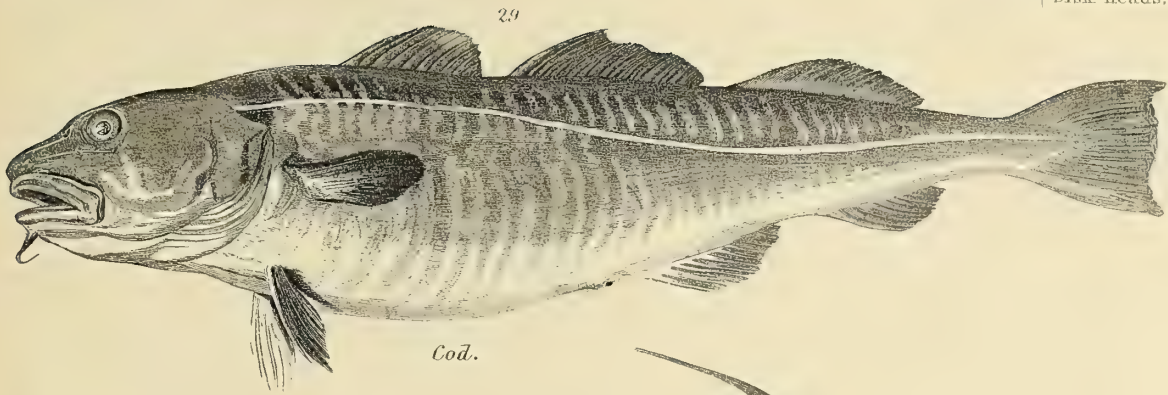






Order, Anacanthi.

Gadoids, 29, 30.  
Families, { Flounders, 31-33.  
Disk-heads, 34.





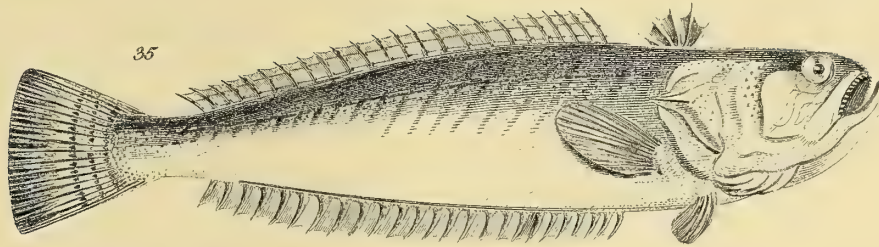




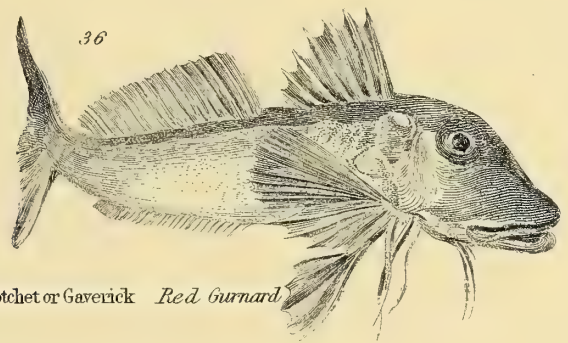
*Sub order Acanthopteres.*

*Families*

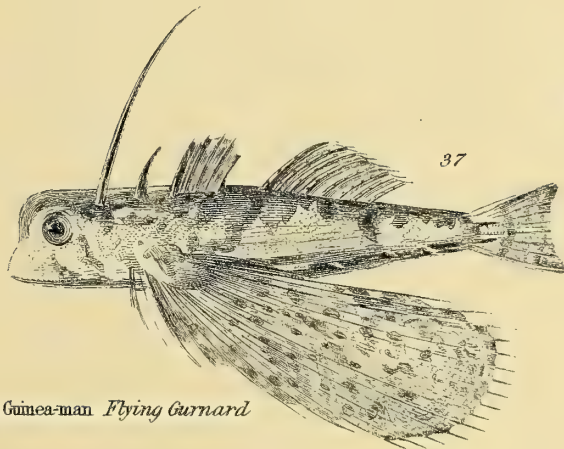
{ Uranoscopians.  
Sclerogemids.  
Surmullidans.  
Sciaenoids.



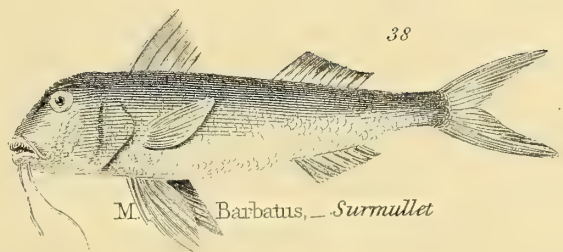
Trach. Draco, — *Common Weever.*



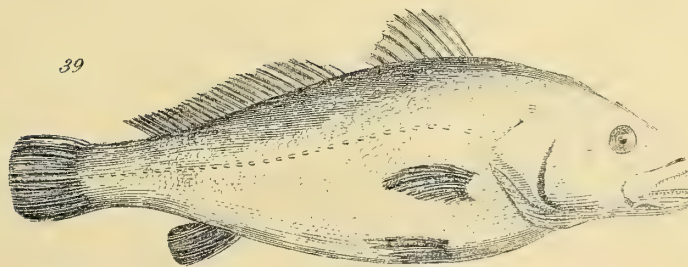
Rotchet or Gaverick *Red Gurnard*



*Dactylopterus Guinea-man Flying Gurnard*



M. Barbatus, — *Surmullet*



*Sciaena Aquila Maigre*

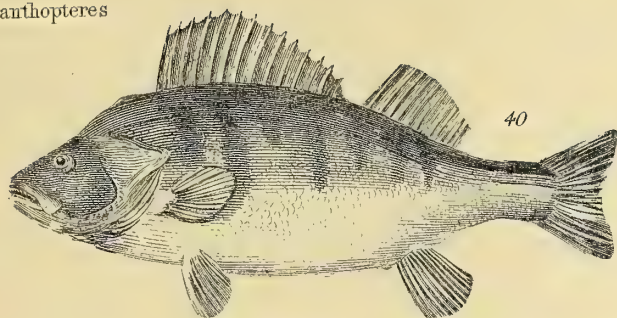






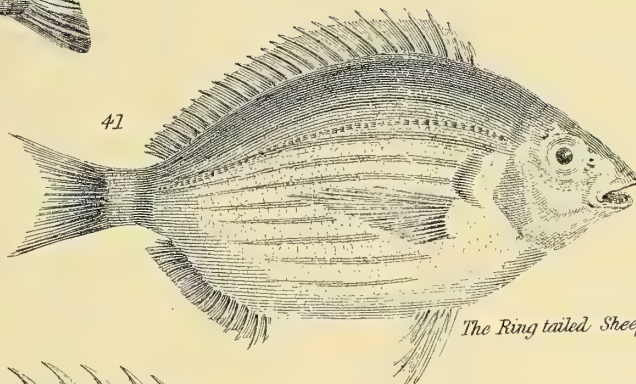
Order Acanthopteres

Families	Percoids	40
	Sparoids	41 42
	Mænoids	43 44



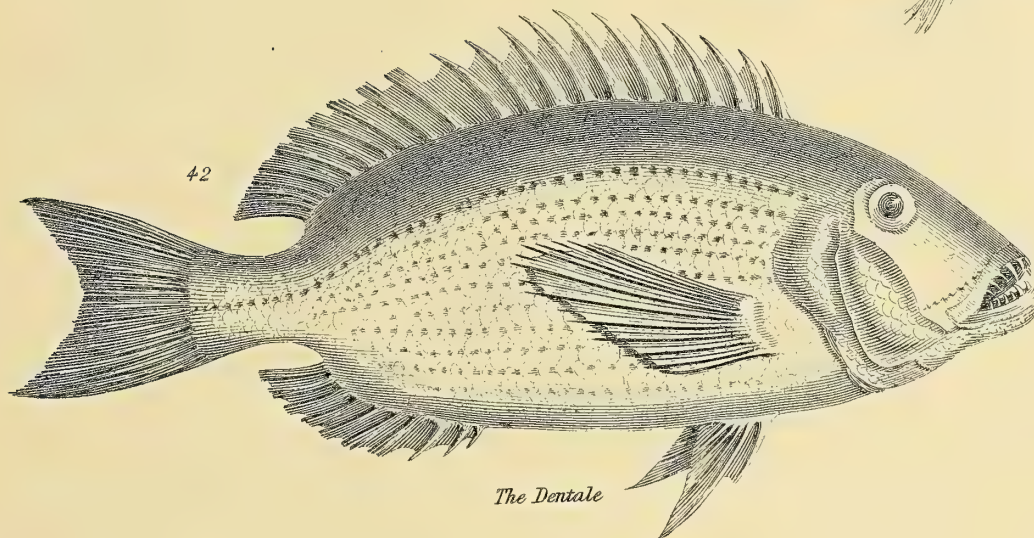
40

*The Perch*



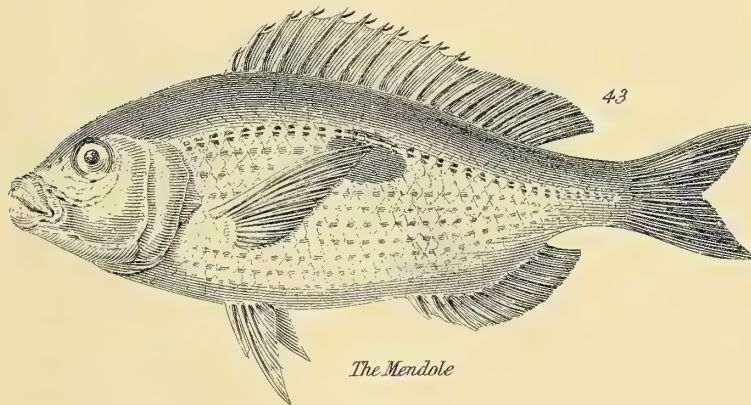
41

*The Ring tailed Sheep-head*



42

*The Dentale*



43

*The Mendole*



44

*The Smaris*





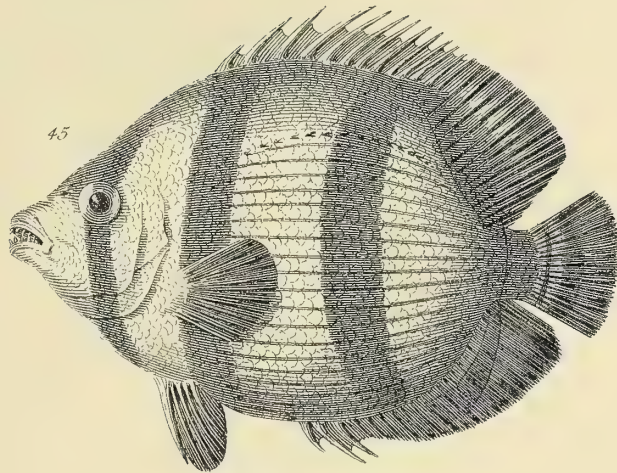


# FISHES.

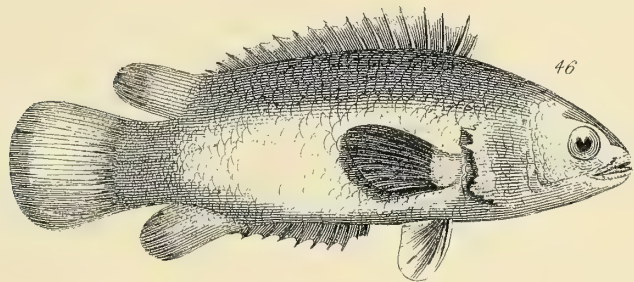
PLATE 9

Order Ctenorhynch Acanthopteres

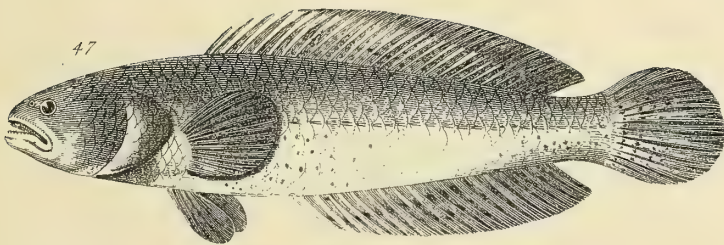
Families { Chætodonts 45  
Labyrinthibranchs 46 47  
Mugiloids 48



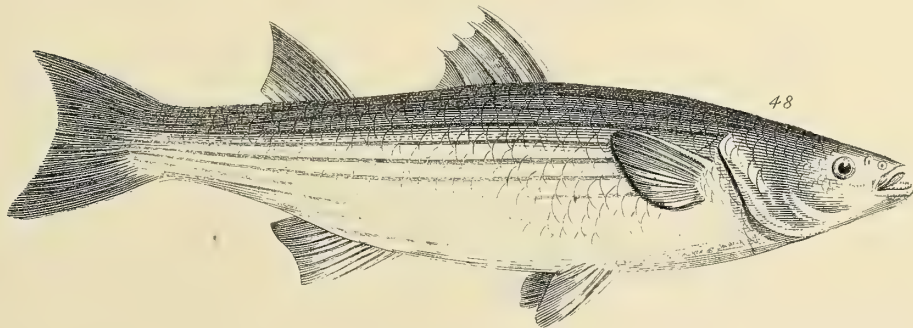
*Streaked Chætodon.*



*Climbing Fish.*



*Dotted Snakehead.*



*Grey Mullet.*

Chas Bone, del.







# FISHES.

PLATE 10

Families  
 Autostomidans 49 50  
 Scombrides 51 52  
 Xiphiads 53

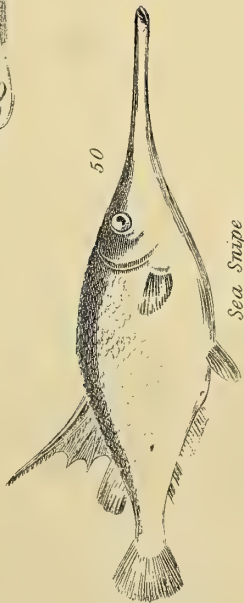
Order Cycloid Acanthopteres 51 52 53

49



*Tobaccopipefish*

50



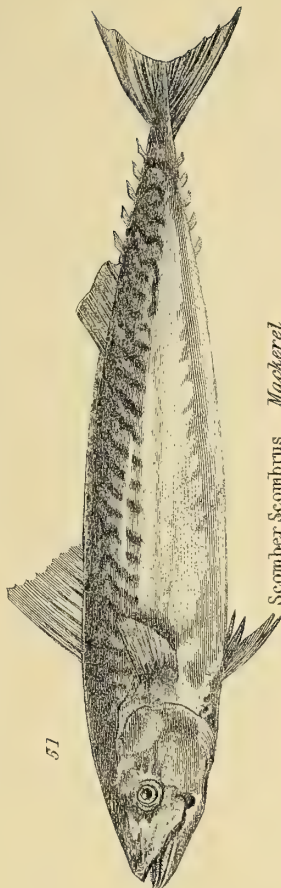
*Sea Snipe*

52



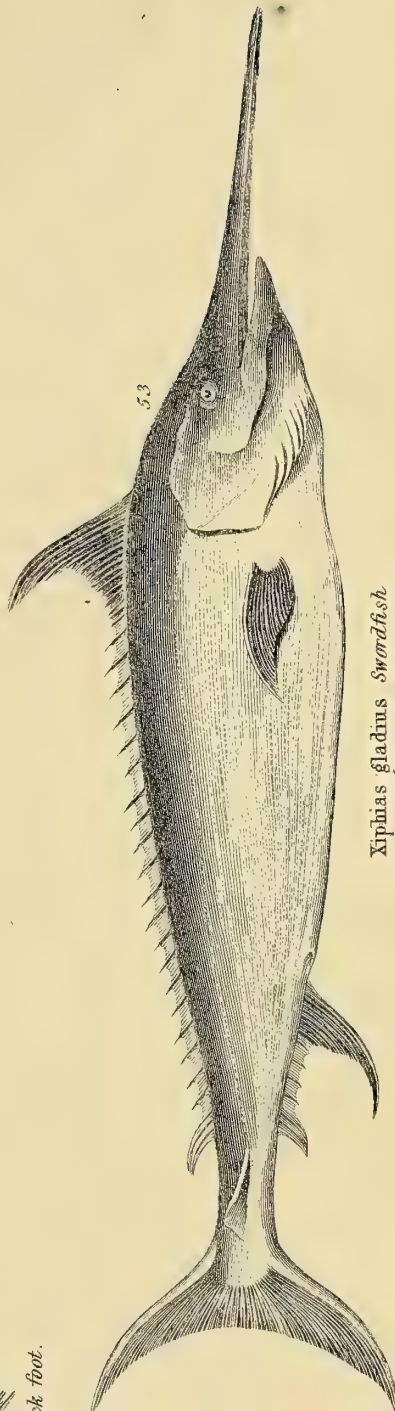
*Black foot.*

51



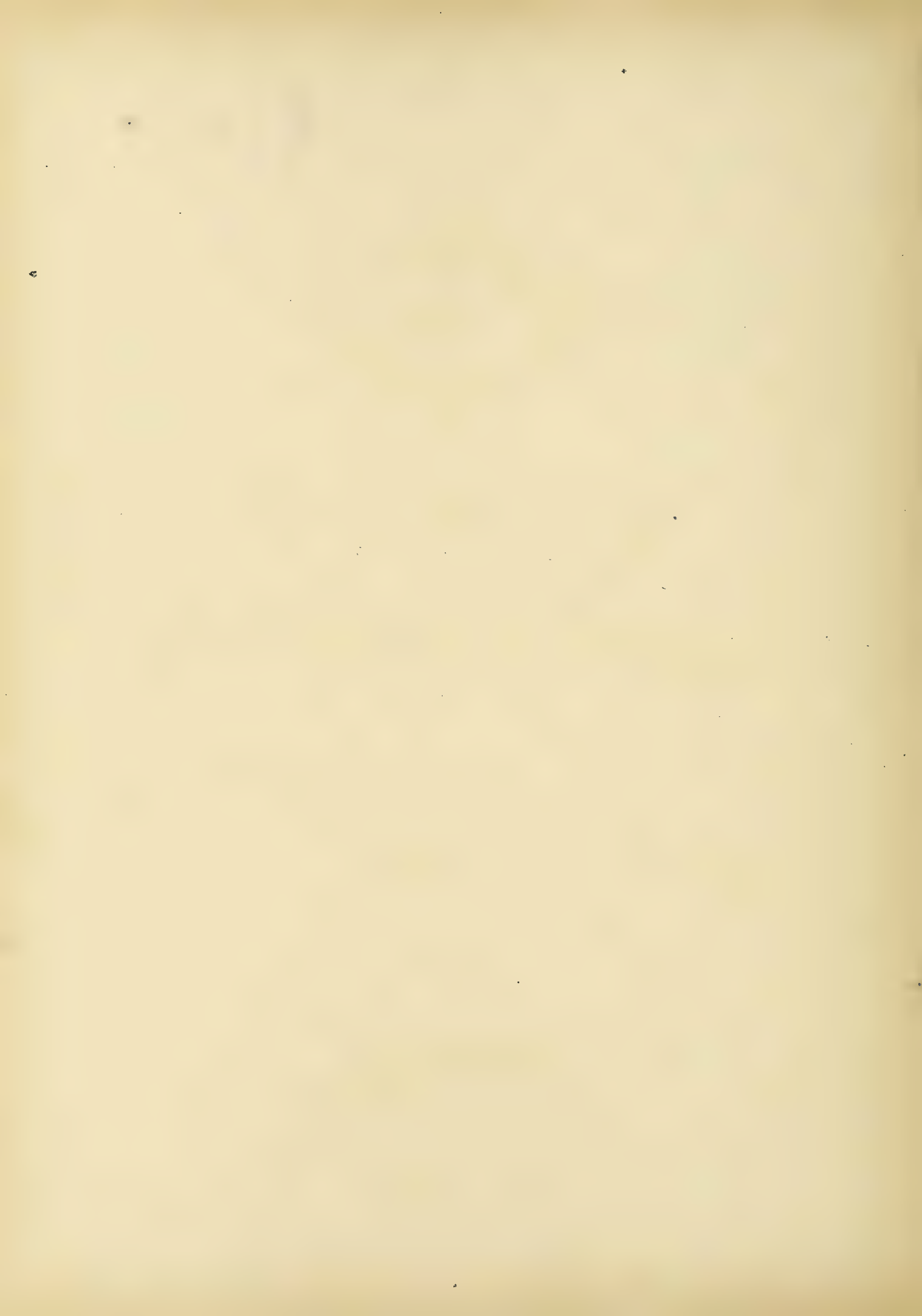
*Scomber Scombrus Mackerel*

53



*Xiphias gladius Swordfish*

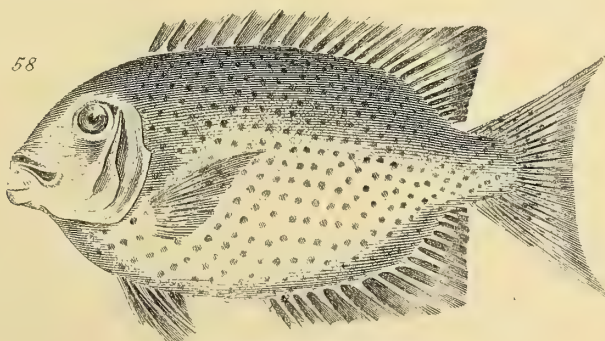
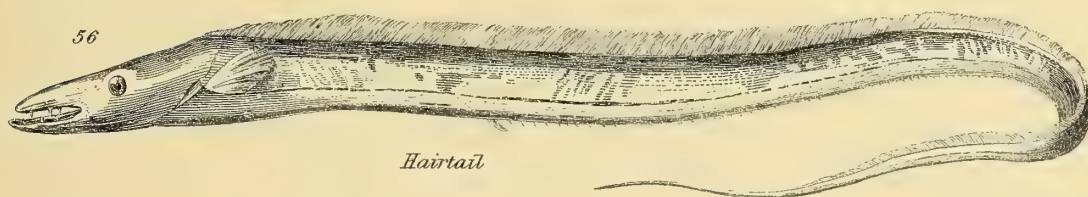
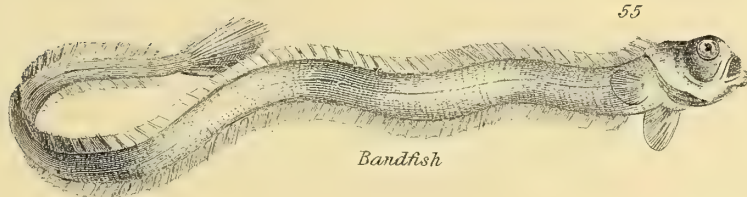
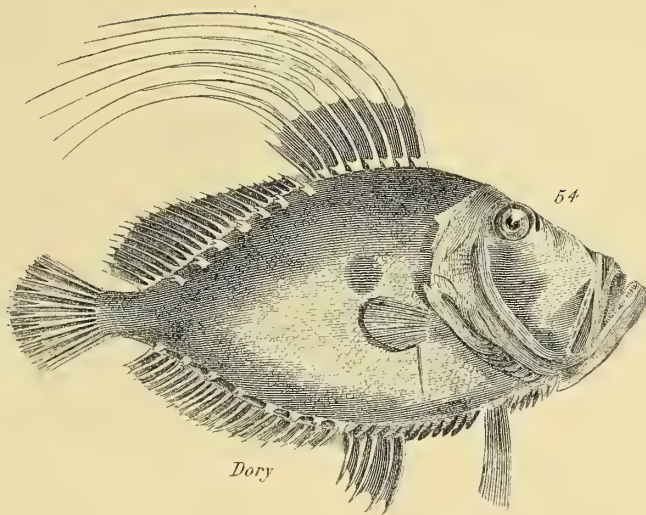






Order Acanthopteres

Families	Dories	54
	Band fishes	55
	Scabbard fishes	56 57
	Teuthyoids	58

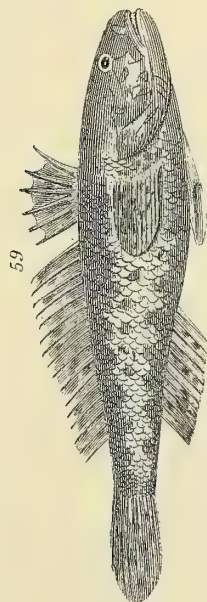








Order Acanthopteres.

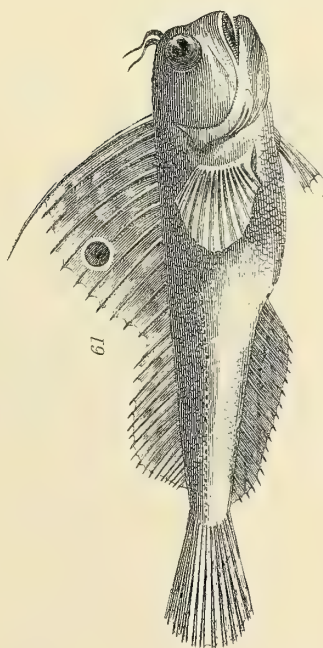


Gobius Niger. Black Goby.



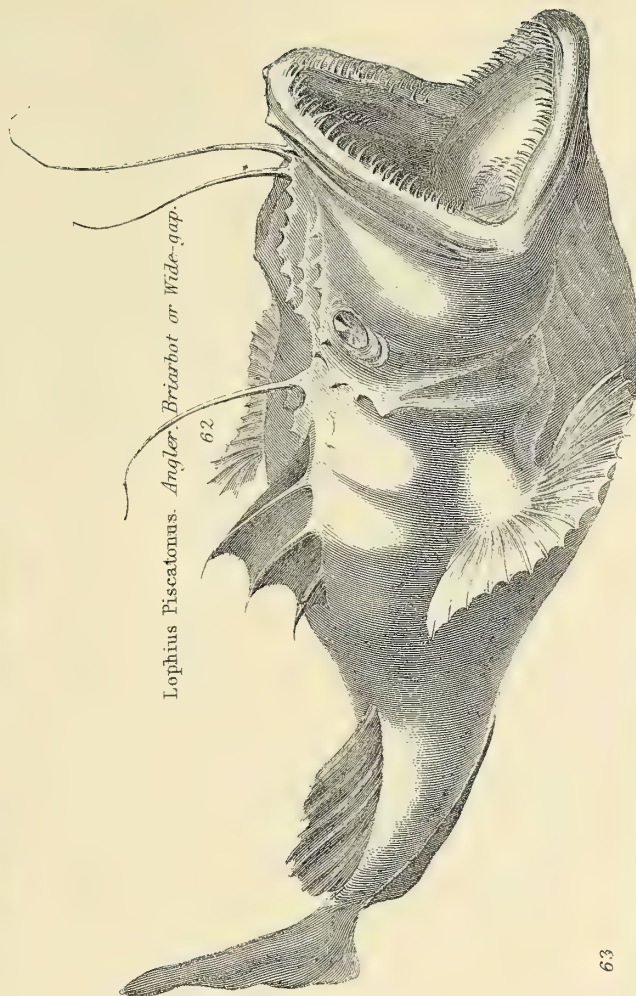
Lepidogaster cornubiensis. Cornish Sucker.

60



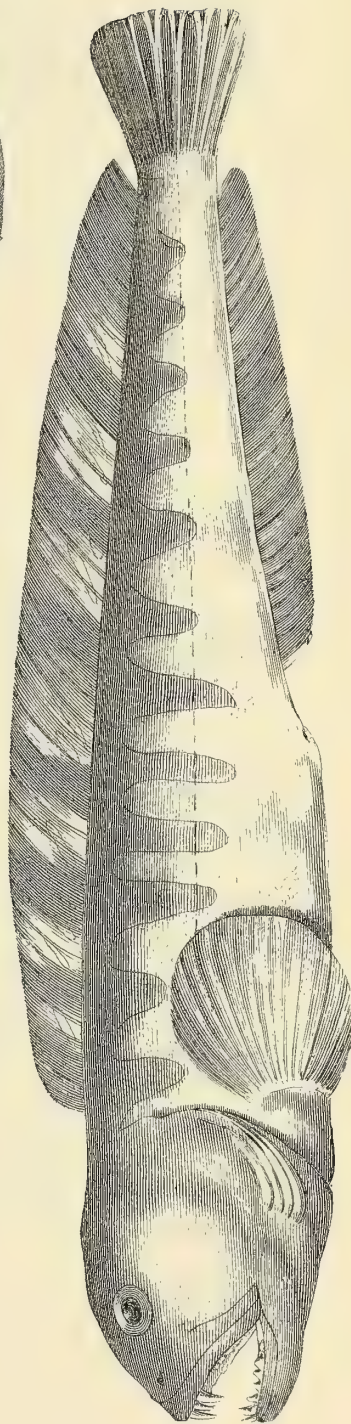
Blennius ocellaris. Butterfly Fish.

61



Lophius Piscatorus. Angler. Britcher or Wide-gape.

62



Anarrhichas lupus. Wolf-fish.

Gobioids 59.  
Discopodes 60.  
Blennoids 61, 63.  
Lophioids 62.







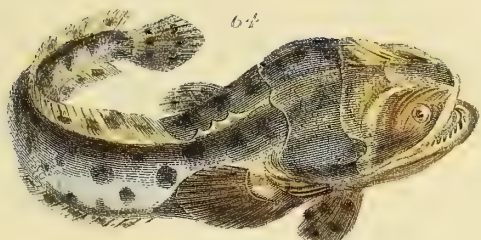
# FISHES.

PLATE 13.

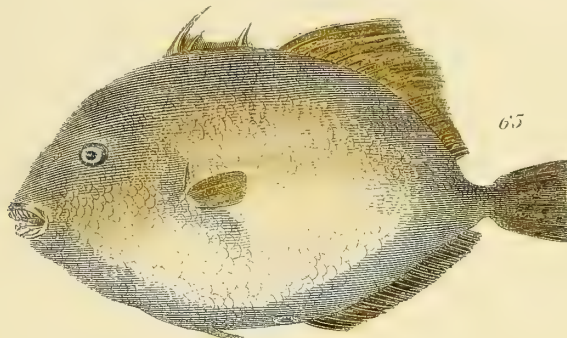
Order Acanthopteres. 64. Plectognaths. 65. 68.

Families

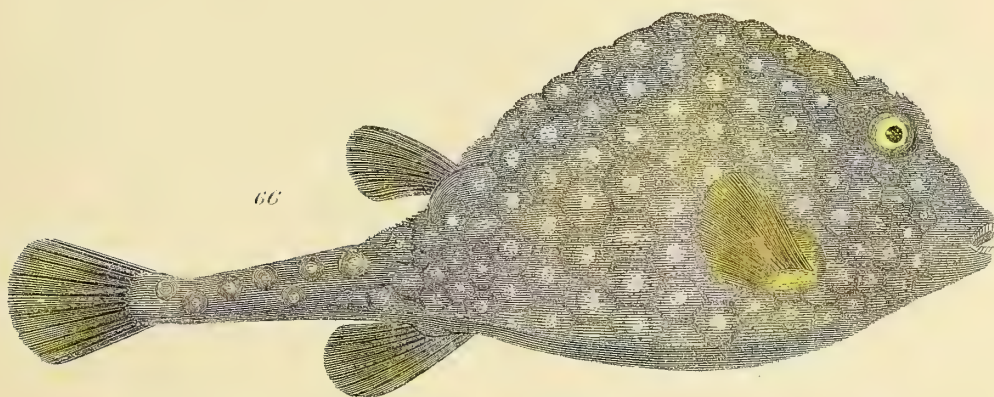
Batrachoids. 64  
Balistids 65  
Ostracionids. 66  
Gymnodonts. 67. 68



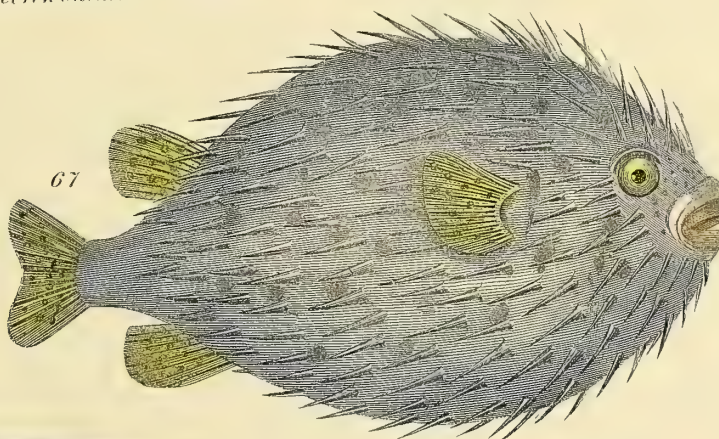
*Surinam Tod-fish.*



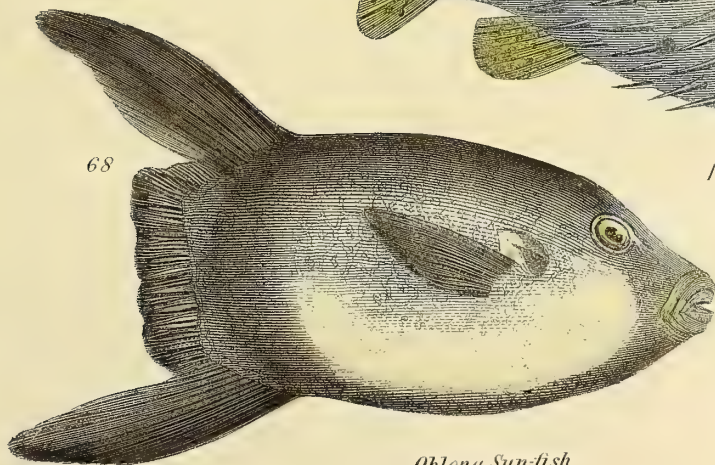
*Pig faced Trigger-fish*



*Chevron backed Coffer-fish.*



*Dotted Hedgehog-fish*



*Oblong Sun-fish*

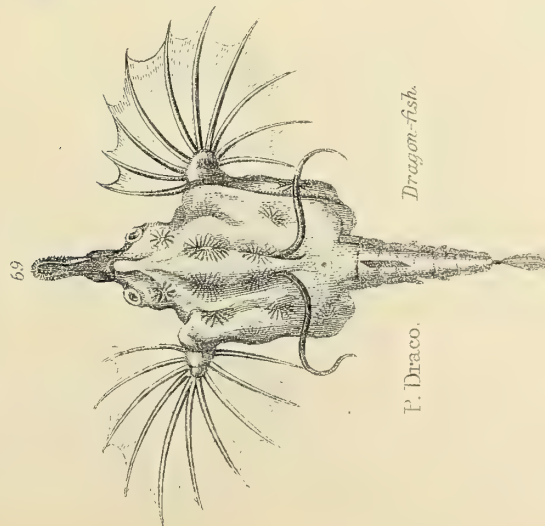






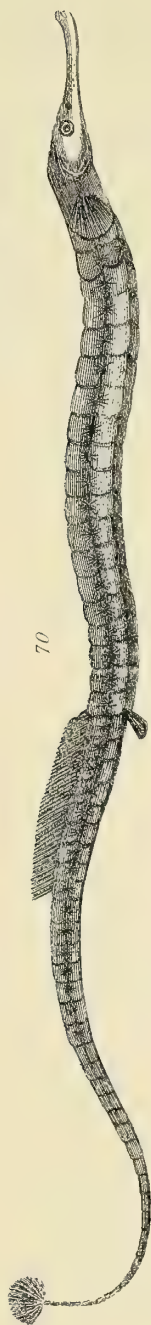
Orders {  
Lophobranchs 69 70.  
Sauroids 71.  
Sturionidans 72.

Families {  
Pegasides 69.  
Syngnathids 70.  
Polypterids 71.  
Acipenseroids 72.

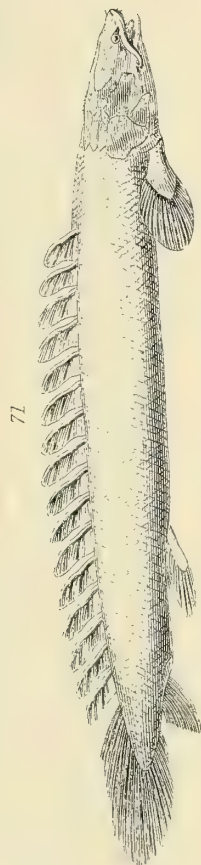


*Dragon-fish.*

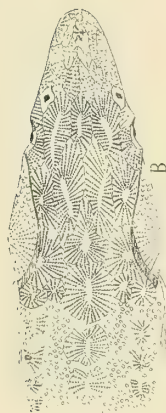
*P. Draco.*



*S. Typhle. — Pipe-fish.*



*P. Bichir. — Polyptere.*



*Upper Surface.*



*A. Sturio. — Sturgeon.*



*Under Surface.*

*C*

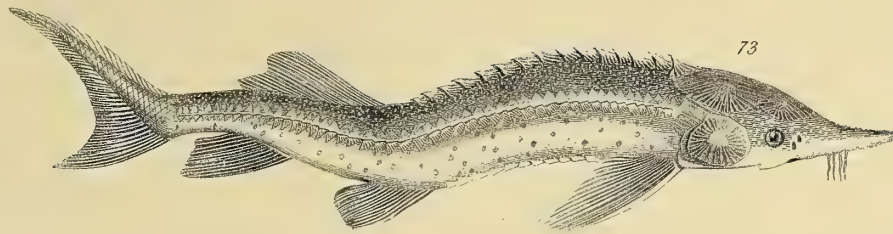






Orders { Ganoids 73 74  
Holocephali 75 76

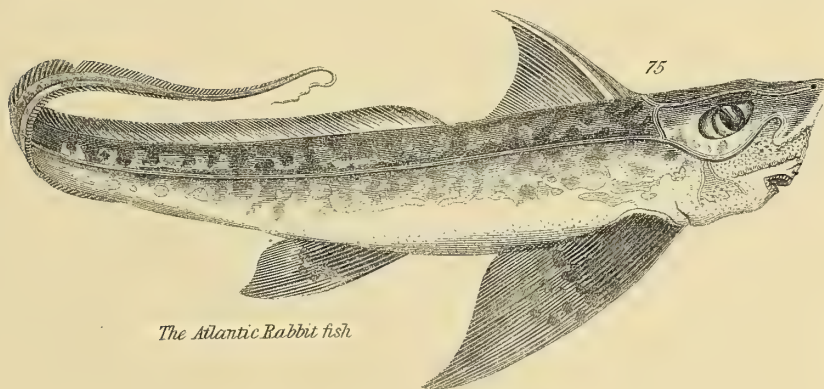
Families { Sturgeons 73 74  
Chimeroids 75 76



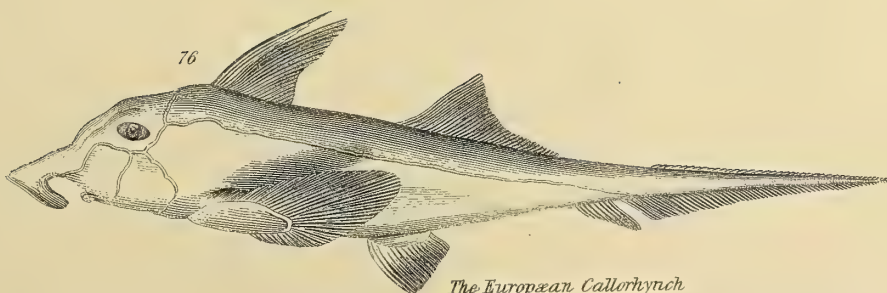
*The Siberian*



*The Paddle fish*

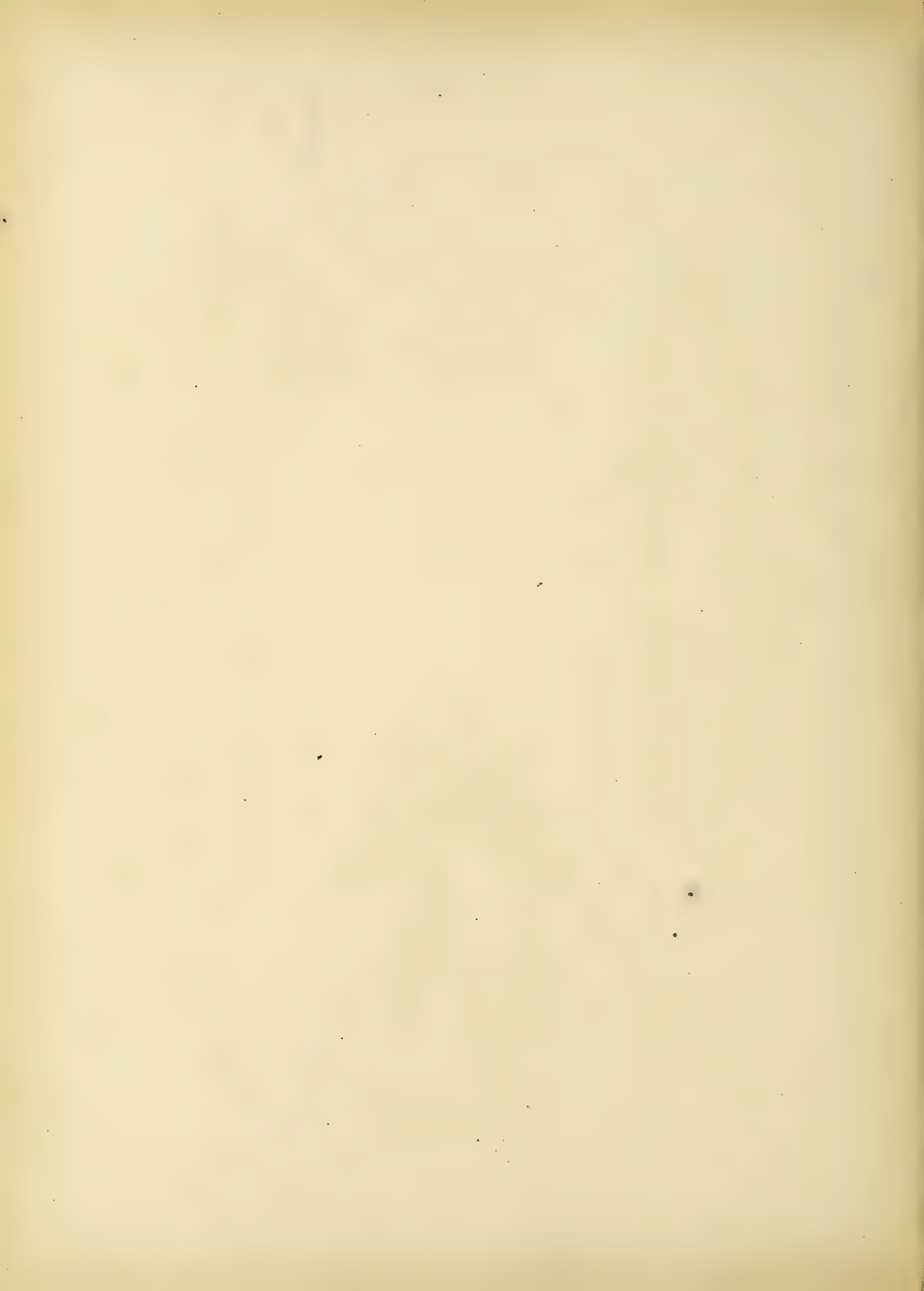


*The Atlantic Rabbit fish*



*The European Callorhynch*





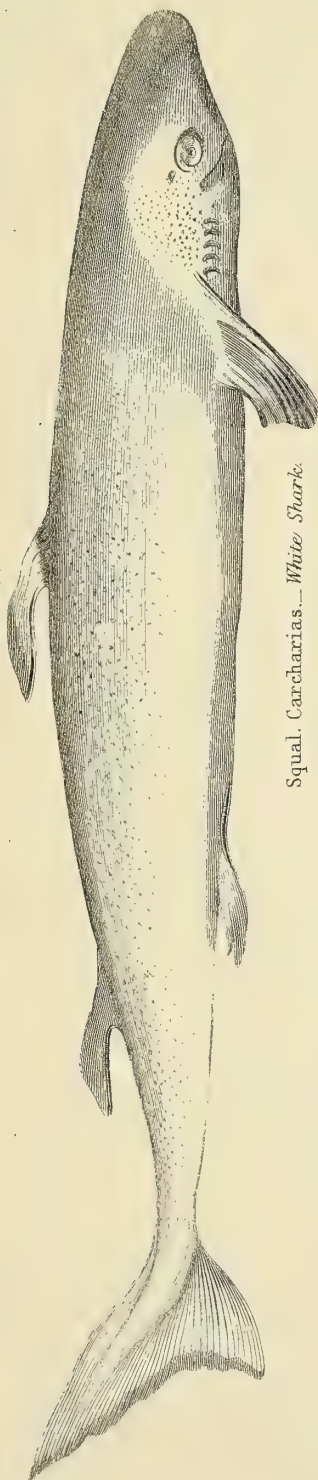


# FISHES.

Orders {  
Chondropterygians.  
Selachians.  
Rays

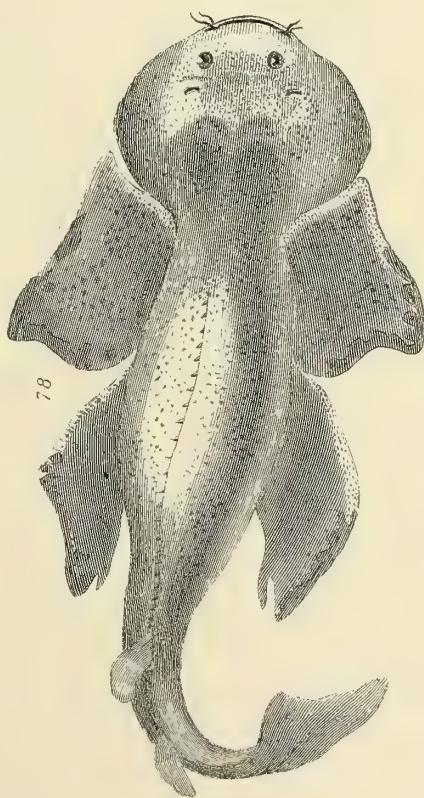
PLATE 16.  
Families {  
Carchariidæ 77.  
Squatrinidæ 78.  
Torpedos 79.  
Skates 80.

77



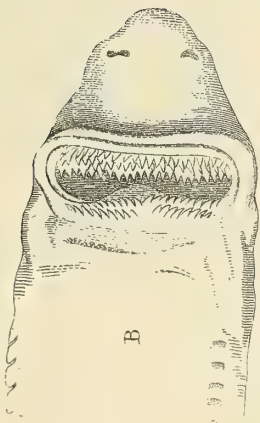
Squal. Carcharias. White Shark.

78

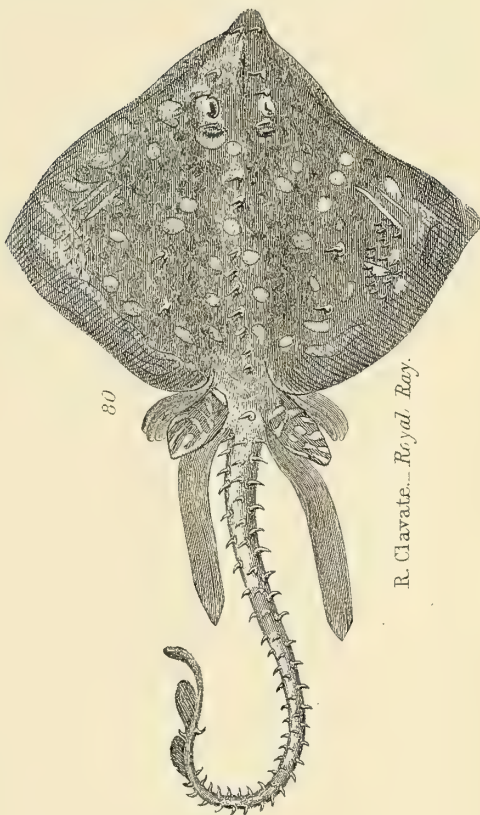


Squatina angelus. Angel Fish.

B

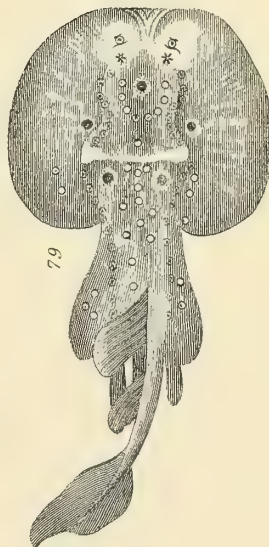


80



R. Clavate. Royal Ray.

79



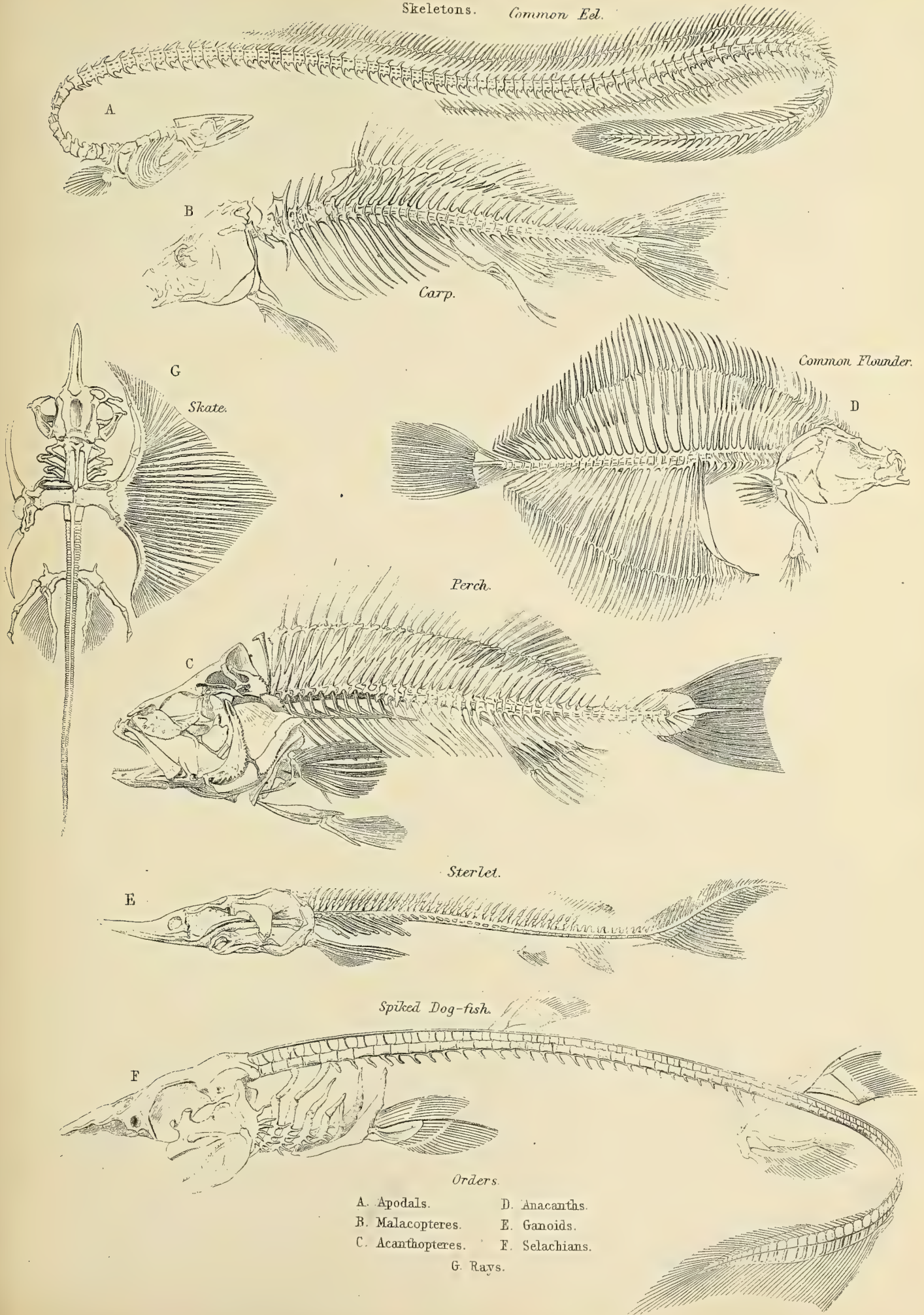
T. Narke. Spotted Torpedo.







Skeletons. Common Ed.





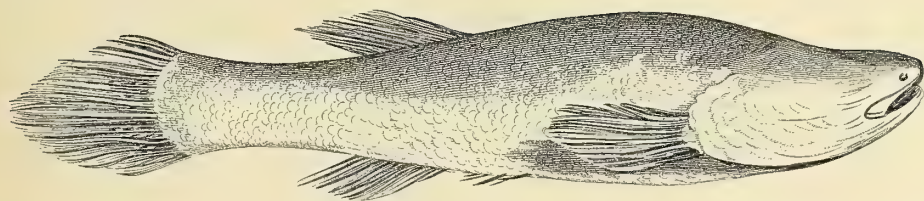




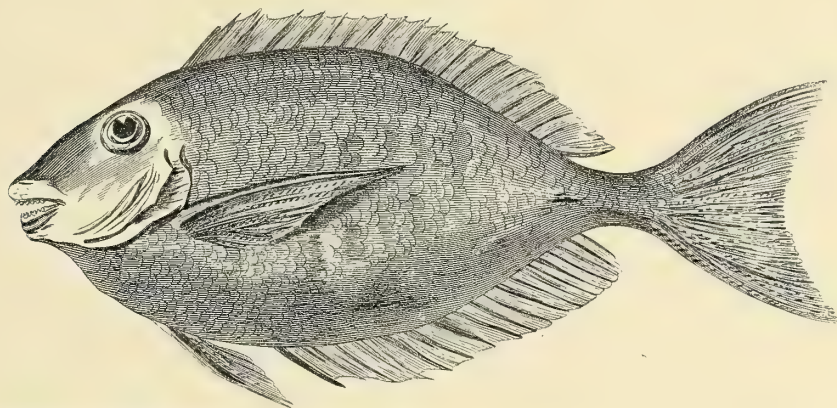
Orders { Teleocephali  
Rhomboganoidei

# FISHES

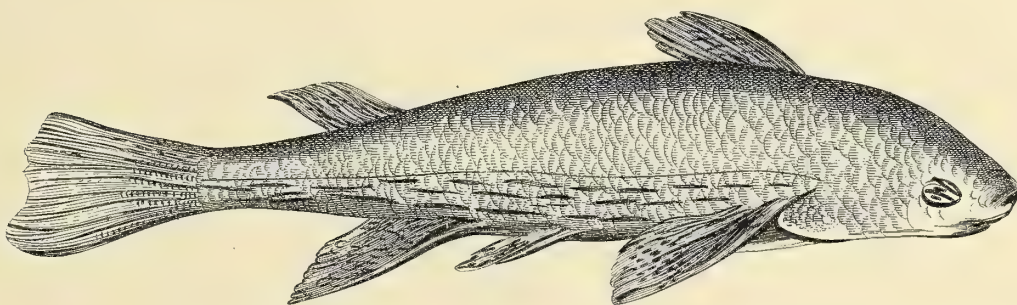
PLATE X.  
Families { Amblyopsidæ  
Teuthidæ  
Cyprinodontidæ  
Lepidosteidæ



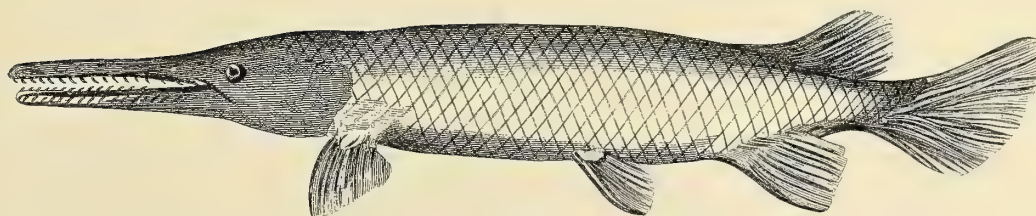
i *Amblyopsis spelæus*. *Larger Blind-fish*.



ii *Acanthurus chirurgus*. *Surgeon-fish*.



iii *Anableps tetraphthalmus*. *Star-gazer*.



iv *Lepidosteus osseus*. *Gar Pike*.







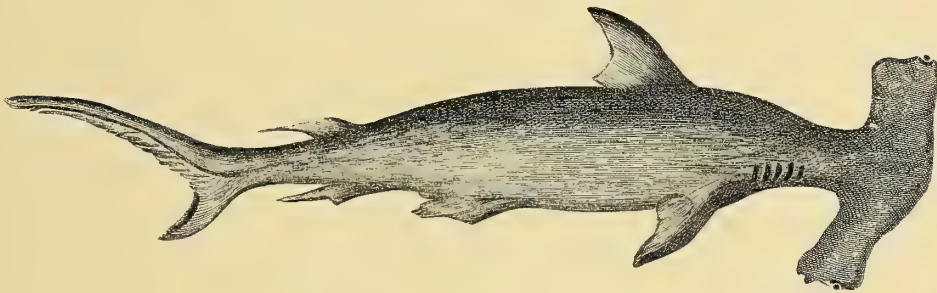
Order: Plagiostomi

FISHES.

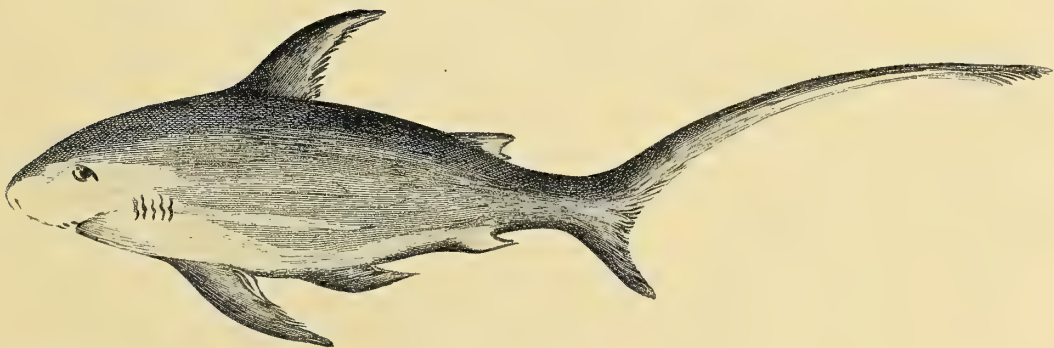
Family { Rayiidae  
Squalidae



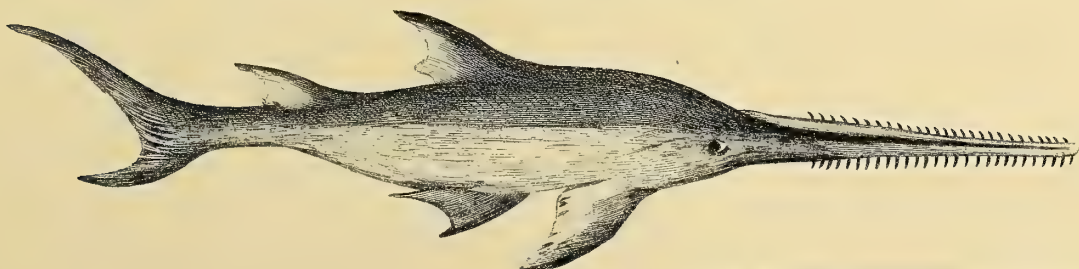
v Rhinoptera quadriloba—Cow-nosed Ray



vi Zygaena malleus—Hammer-head Shark



vii Alopias vulpes—Fox Shark



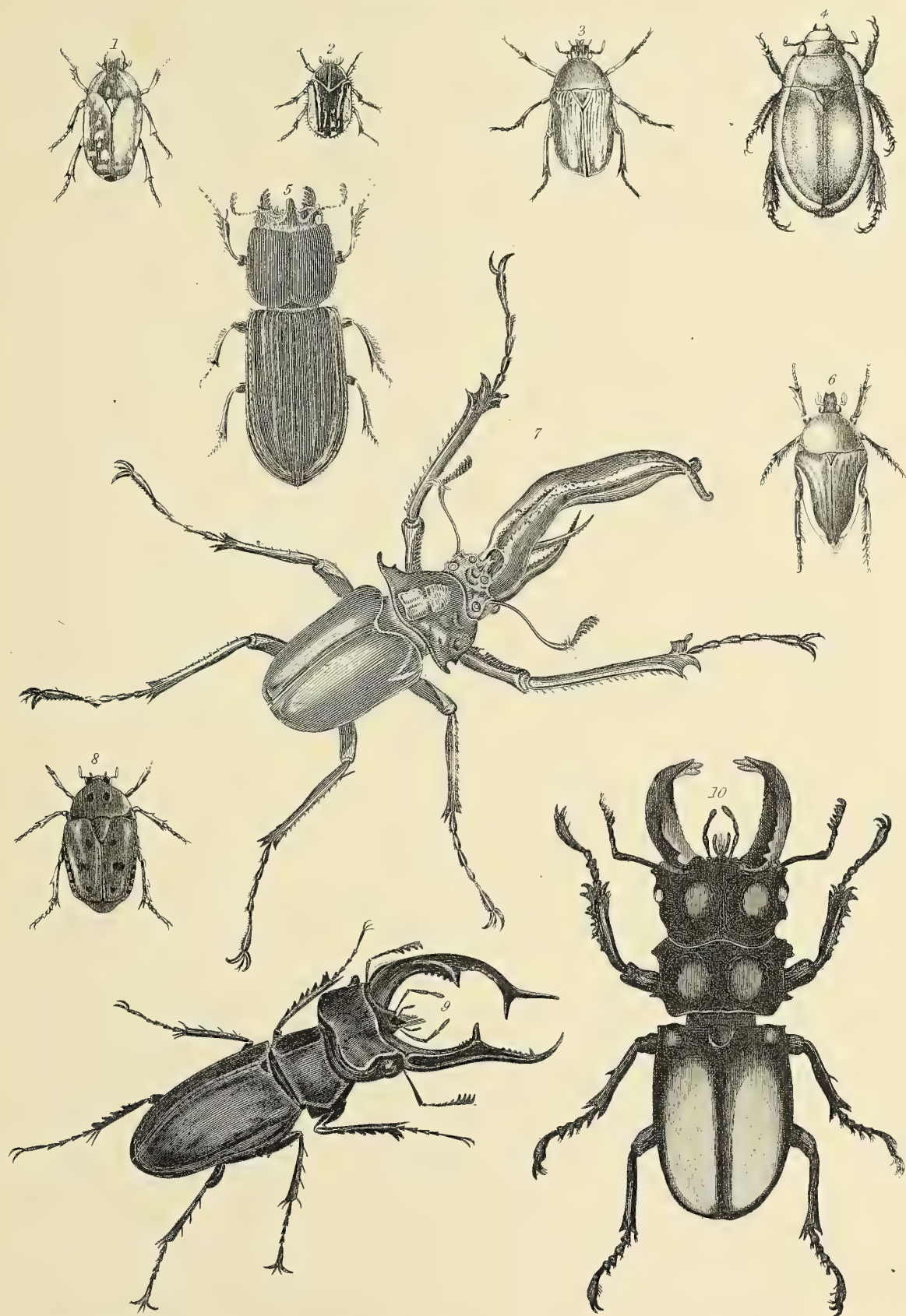
viii Pristis antiquorum—Saw Fish







Order Coleoptera



- 1 Schizorhina Emilia Emily's Green & yellow Rose Beetle  
 2 Clinteria Hoffmeisteri Hoffmeisters Rose Beetle  
 3 Trigonophorus Hookeri Dr. Hooker's Rose Beetle  
 4 Calloodes Grayianus Dr. Gray's Calloodes  
 5 Passalus interruptus

- 6 Oxythyrea Helena Helen's Abyssinian Rose Beetle  
 7 Chiasognathus Granti Scissor-jawed Beetle from Chiloe  
 8 Schizorhina Bassii Bass's Australian Rose Beetle  
 9 Lucanus Cervus Stag Beetle  
 10 Cladoagnathus Parryi Major Parry's Stag Beetle.







# ENTOMOLOGY.

PLATE 2

Order Coleoptera.



1 *Tillus mutillarius.*

2 *Tachys minutus*

3 *Drilus flavescens* male

4 *Romalatus suturalis*

5 *Cheivotous Macleayi* Macleay's long armed Leaf-Beetle

6 *Lampyris noctiluca* Glow-worm Male

7 ..... Female

8 *Chrysocroa Edwardsii* Edwards Burpestis

9 *Rhipicera marginata* Margined Fan-horned Beetle

10 *Lamprocera lateralis* Latreilles Glow-Worm

11 *Oxynterus Cumingii* Philippine Island Great Click Beetle







Order, Coleoptera.



- 1 *Rhagium mordax*.
- 2 *Moliorchus abbreviatus*.—Fly-like-beetle.
- 3 *Rosalia alpina*.—Alpine Musk-beetle.
- 4 *Telocera Wollastoni*.—Wollaston's Australian Longicorn.
- 5 *Pascoëa Ida*.—Pascoe's armed-checked Longicorn.
- 6 *Pyrrha Wollastoni*.—Lord Howe's Island Longicorn.
- 7 *Phæbe concinna*.—The elegant lavender coloured Longicorn.
- 8 *Anisocerus dulcissimus*.—Charming Yellow and Red Longicorn.
- 9 *Tragocephala comitessa*.—The Countess Beetle.
- 10 *Anthicus pedestris*.
- 11 *Helæus perforatus*.—The hairy perforated Helæus.

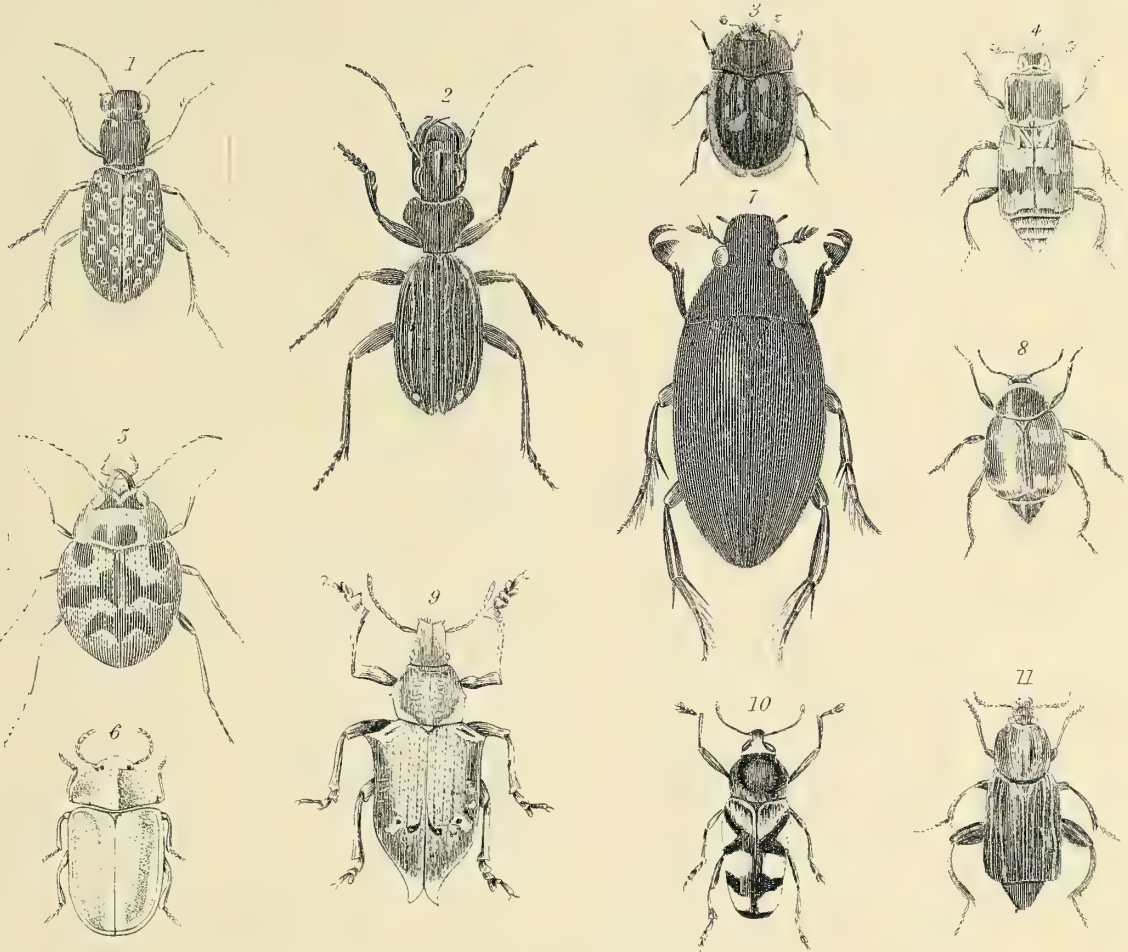
- 12 *Prioptera Whitei*.—N. Chinese Tortoise-Beetle.
- 13 Pupa of *Prioptera Whitei*.
- 14 *Selenis spirifer*.—Perforated Tortoise-Beetle.
- 15 *Cerocoma Schafferi*.
- 16 *Gnathium Francilloni*.—Francillon's Thread-jaw.
- 17 *Brontes planatus*.
- 18 *Lomechusa dentata*.—Ants-nest-beetle.
- 19 *Apate capucina*.
- 20 *Notoxus monoceros*.
- 21 *Ptinus Fur*.
- 22 *Dasytes niger*.







Order Coleoptera



Order Strepsiptera.



1 *Elaphrus uliginosus*

2 *Anthia 4 guttata*

3 *Nitidula grisea*

4 *Necrophorus vespillo* Burying beetle

5 *Omophron limbatum*

15 *Elenchus Walkeri*

6 *Australica Curtisi*

7 *Hydrous picus* Large Water beetle

8 *Scaphidium 4 maculatum*

9 *Cyphus Hancocki* Capt<sup>n</sup> Hancock's Green & Gold Weevil

10 *Ameris Dufresnii* Dufresne's Red spotted Weevil

16 *Xenos Vesparum*

*Necrodes littoralis*

11 *Shore burying Beetle*

12 *Stylops Kirbyi*

13 *Hahetophagus Curtisi*

14 *Stylops Melitae*

17 *Stylops Dufri*







Order Orthoptera



*Forficula auricularia*  
Earwig



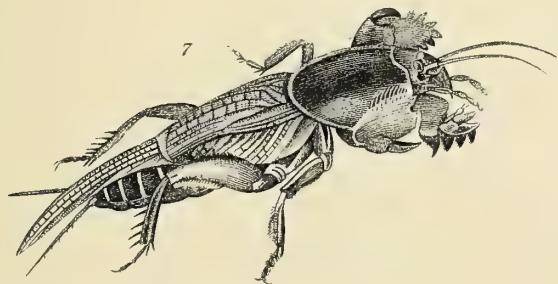
*Blatta lapponica*  
Lapland Cockroach.



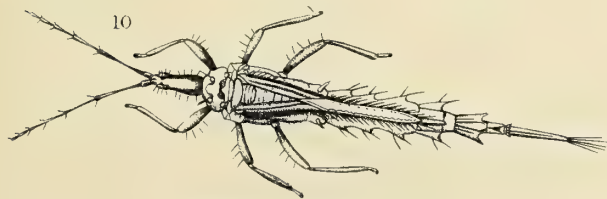
*Tridactylus parvulus*



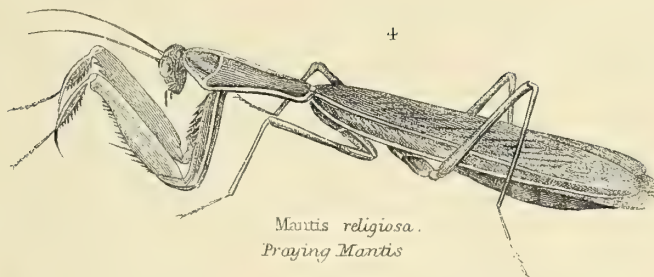
*Acrydium caulescens*  
Blue-winged Grasshopper.



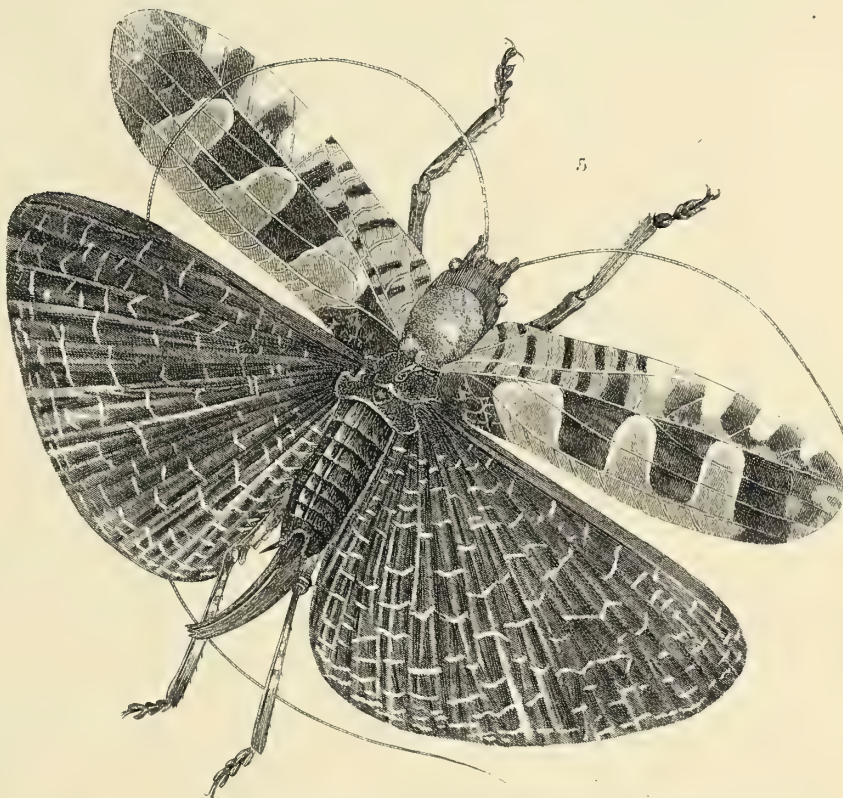
*Gryllotalpa vulgaris*.



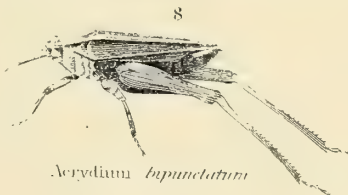
*Idolothrips spectrum*.  
(highly magnified)



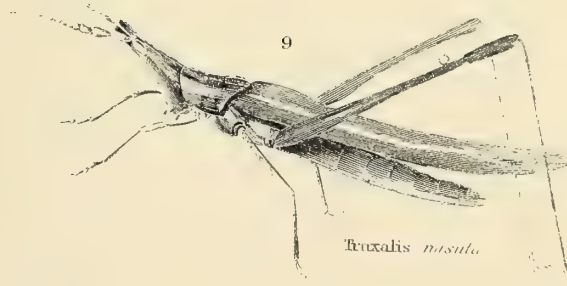
*Mantis religiosa*.  
Praying Mantis



*Acanthodis imperialis* The Emperor black and green Cricket



*Acrydium bipunctatum*



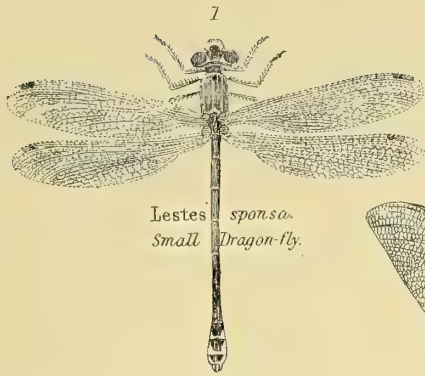
*Truxalis nasuta*



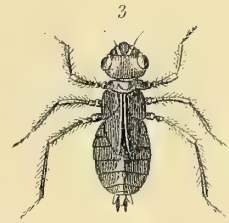




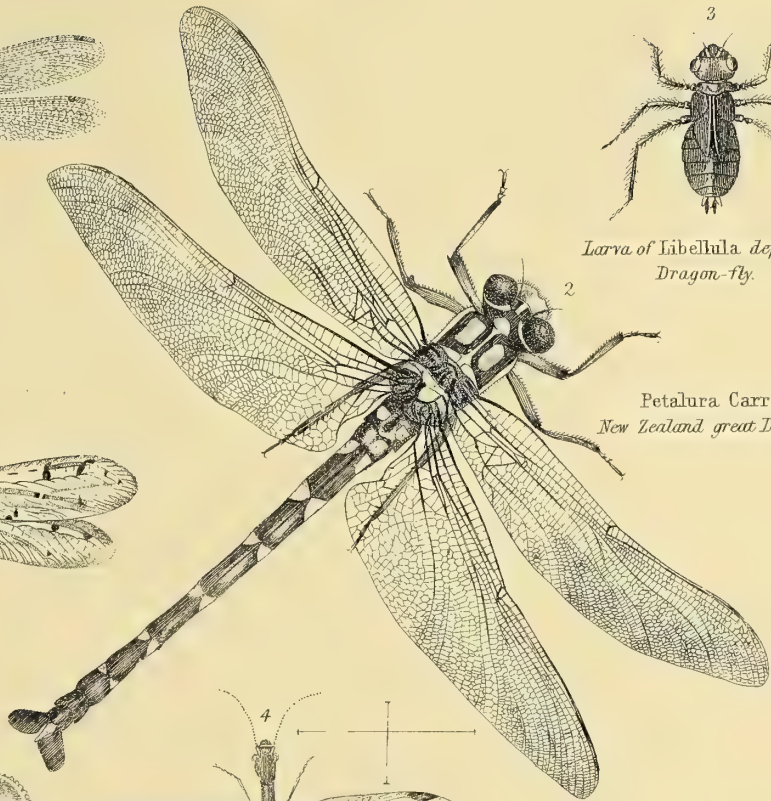
Order, NEUROPTERA.



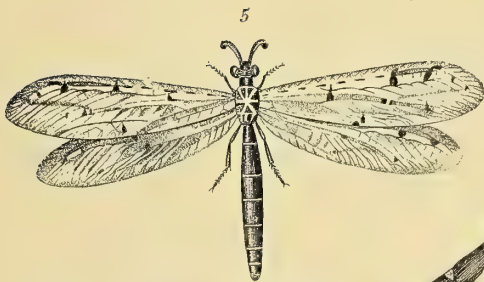
*Lestes sponsa.*  
Small Dragon-fly.



Larva of *Libellula depressa.*  
Dragon-fly.



*Petalura Carrovei.*  
New Zealand great Dragon-fly.



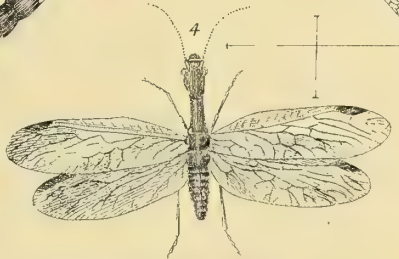
*Myrmeleon formicarius.*  
Ant-lion.



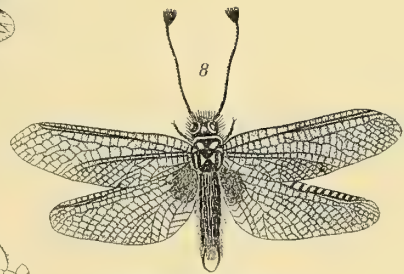
Larva.



Larva.



*Raphidia notata.*  
Snake-fly.



*Ascalaphus Barbarns.*



*Nemoptera filipennis.*  
Thread winged Megaloptera.

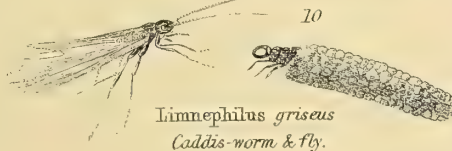


*Ephemera vulgata.*  
May-fly.



*Panorpa communis.*  
Scorpion-fly.

Order, TRICHOPTERA.



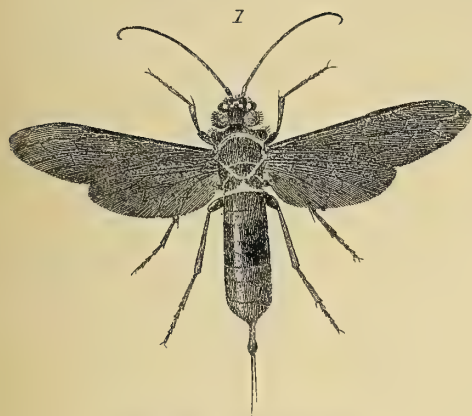
*Limnephilus griseus*  
Caddis-worm & fly.







Order Hymenoptera.



*Sirex gigas* - Tailed Wood-Wasp.



*Pterygophorus cinctus*  
Female Australian Sawfly.



*Banchus pictus*  
Painted Ichneumon.



*Evania appendigaster* Cockroach.



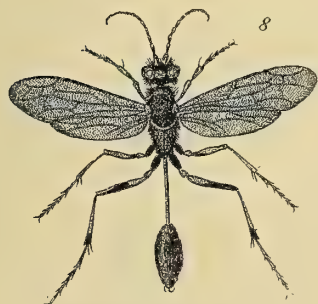
*Mutilla coccinea*.



*Colastes apiformis*.



*Ephialtes manifestator*  
Great Ichneumon.



*Pelopæus spirifer*



*Scolia 4-maculata*



Head of *Philanthus triangularis*



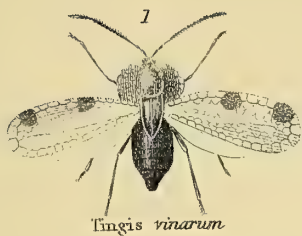
*Stethorectus ingens* (reduced)  
G. Brazilian spider-Wasp







Sub order Hemiptera



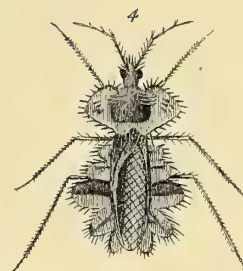
*Tingis vinarum*



*Lygaeus punctum*



*Tetyra nigrolineata*



*Syromastes paradoxus*



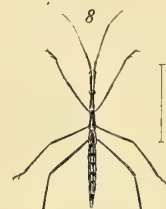
*Berytus tipularius*



*Notonecta glauca.*  
Water boatman.



*Gerris lacustris*  
Water-runner.



*Hydrometra stagnorum*

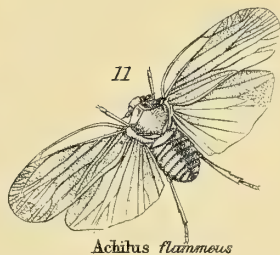


*Naucoris cimicoides*

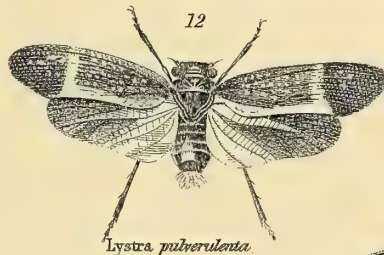
Sub order Homoptera



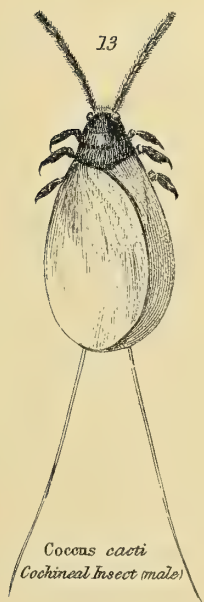
*Ancyra appendiculata*



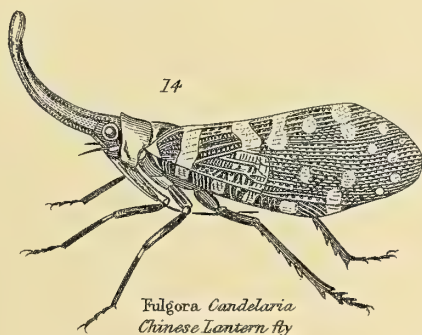
*Achilus flammeus*



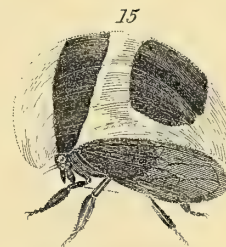
*Lysira pulverulenta*



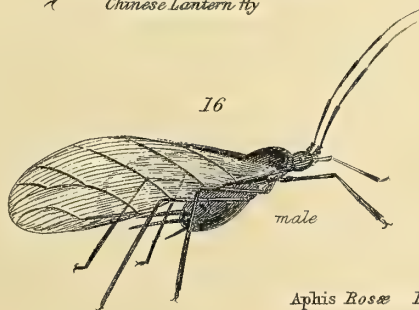
*Coccus cacti*  
Cochineal Insect (male)



*Fulgora Candalaria*  
Chinese Lantern Fly



*Membracis foliacea*



*Aphis Rosae* Plant Lice of the Rose



(female)







Order, Lepidoptera.



1 *Catagramma exelsior*. Hewitson's Amazon Butterfly.

1<sup>a</sup> ..... under side.

2 *Ornithoptera Brookeana*. Brooke's Borneo Butterfly. (male)

3 *Apatura Laura*. Drury's Emperor Butterfly.

4 *Heliconia Hermathena*.

5 *Heliconia Hecatesia*.

6 *Epicalia Penthia*.

7 *Calydna Calamysa*...

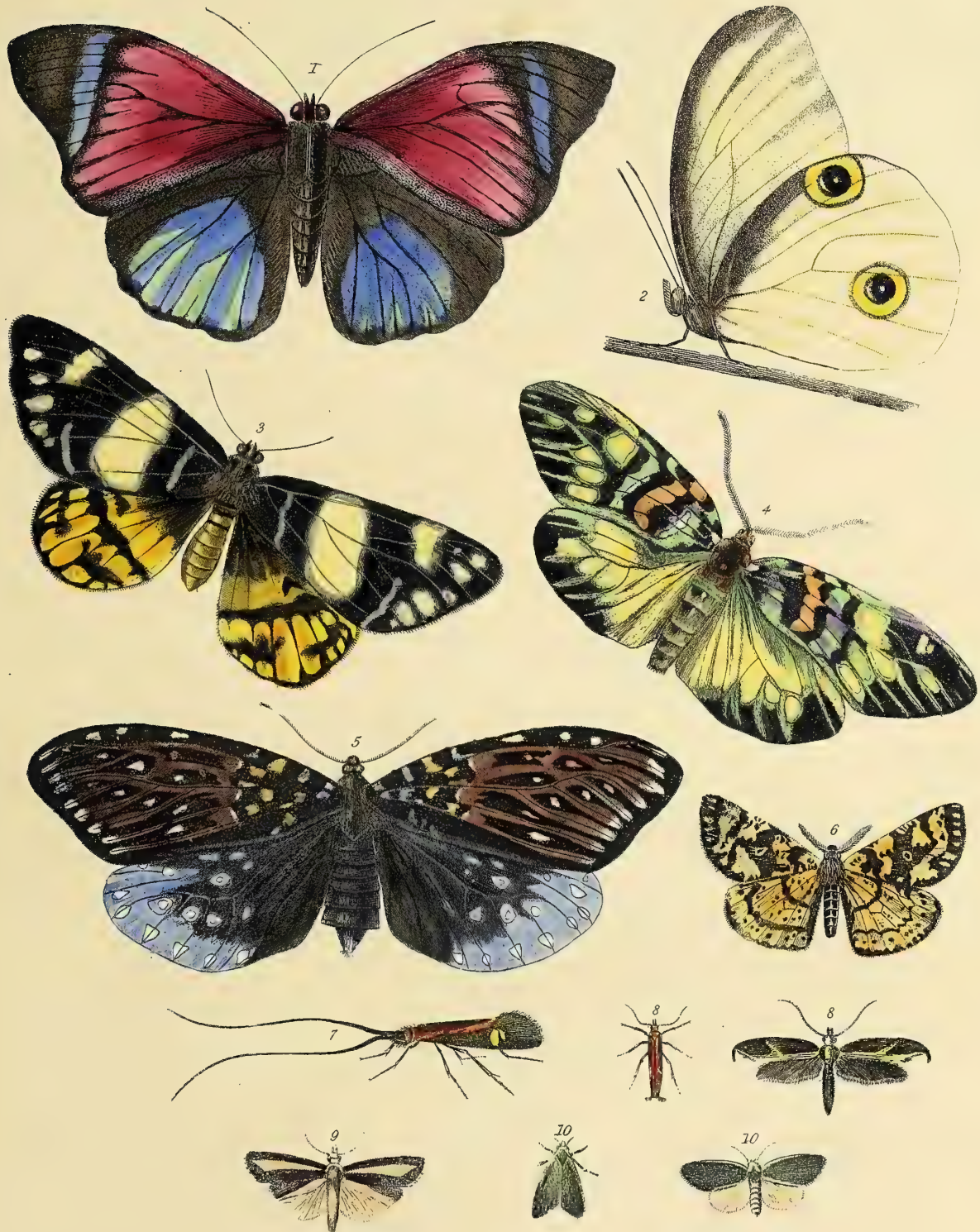
} South American Butterflies.







Order Lepidoptera



- 1 *Agrias Claudia*     *The Annetta Amazon Butterfly. (male)*  
 2 *Drusilla Mylæcha*     *Macgillivray's Louisiade.*  
 3 *Præsos Mariana*     *Marian White's Moth.*  
 4 *Erasmia pulchella*     *Charles Horne's Moth.*  
 5 *Cyclosia sanguiflua*     *The Painter's Pallet.*

- 6 *Fidonia atomaria.*  
 7 *Adela Sultzella.*  
 8 *Cerostoma xylosiella*  
 9 *Grambus margaritellus*  
 10 *Earis Chlorana.*







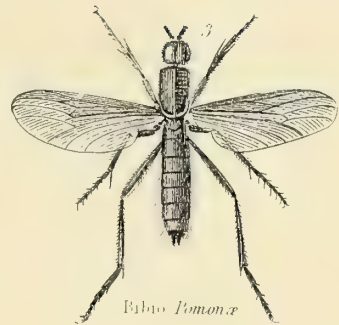
Order Diptera



*Ceria conopsoides.*



*Echnomyia fera*



*Bibio pomonae*



*Herops marginalis*



*Volucella bombylans*  
male



*Ceroplatus tipuloides*



*Anthrax Morro*



*Tabanus niger*

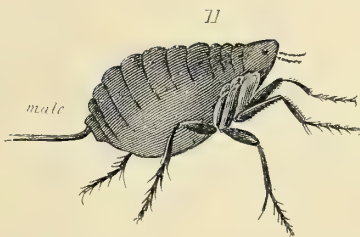


*Diopsis Ichneumonaea*  
Telescope fly



*Phasia hemiptera*

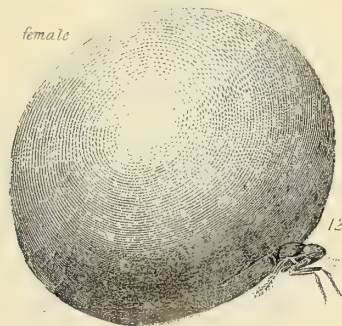
Order Aphaniptera



male



Egg

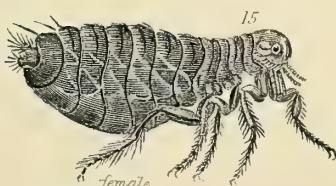


female

*Sarcopsylla Penetrans or Chigoe*  
highly magnified

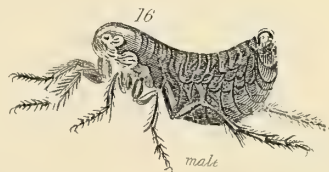


13



female

*Pulex irritans Common flea*  
highly magnified



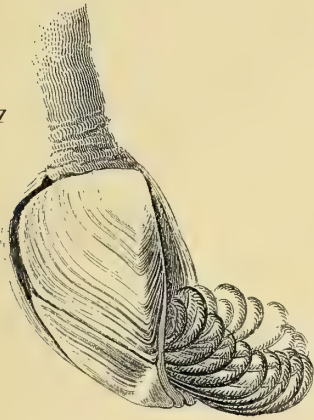
male







1



*Lepas anatifera*

2



*Scalpellum vulgare*

3



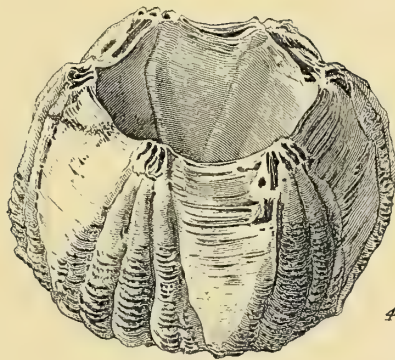
*Tubicinella trachealis*

6



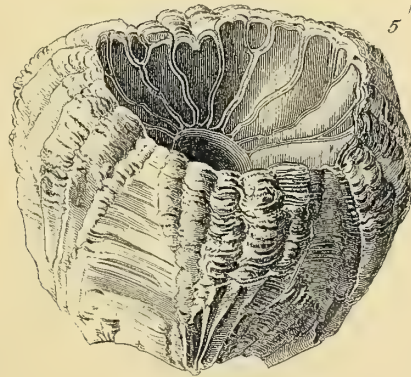
*Conchoderma virgata*

4

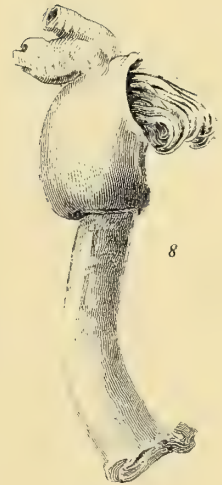


*Coronula diadema*

5 \*



8



*Conchoderma auritu*

7

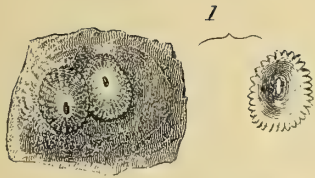


*Pollicipes cornucopia*

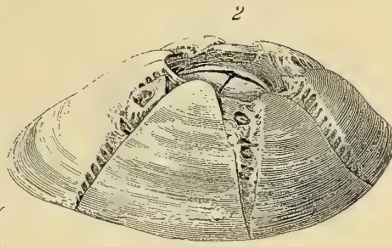








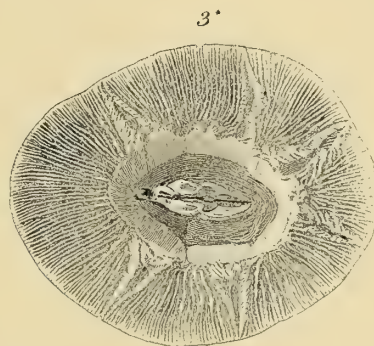
*Pyrgoma cancellatum*



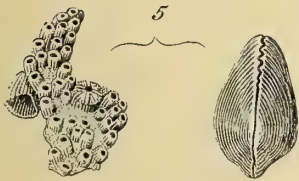
2 3 *Chelonobia testudinaria*



*Conia porosa.*



3\*



*Creusia spinulosa*



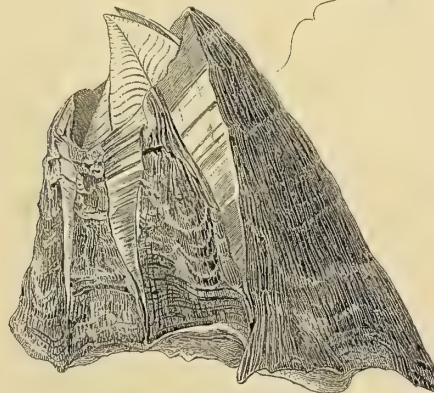
*Balanus tintinnabulum (Var.)*



7



*Verruca strombia*



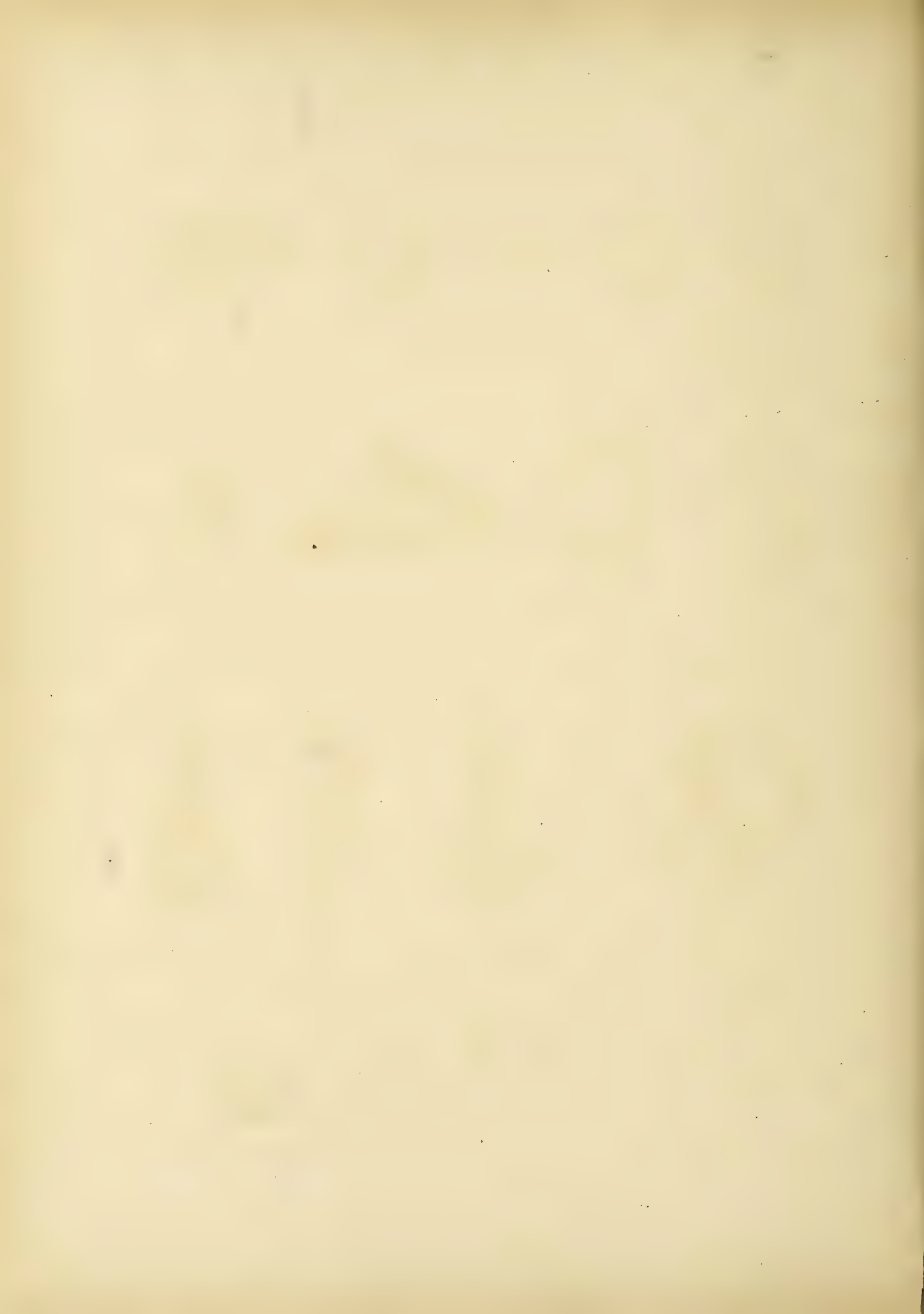
*Balanus tintinnabulum*



*Acasta spongites*

10



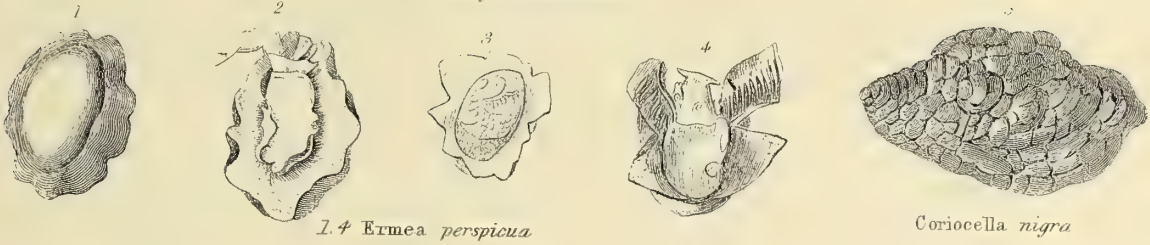




Class Gasteropoda  
Sub class Ctenobranchiata.

(Order) Pectinibranchiata

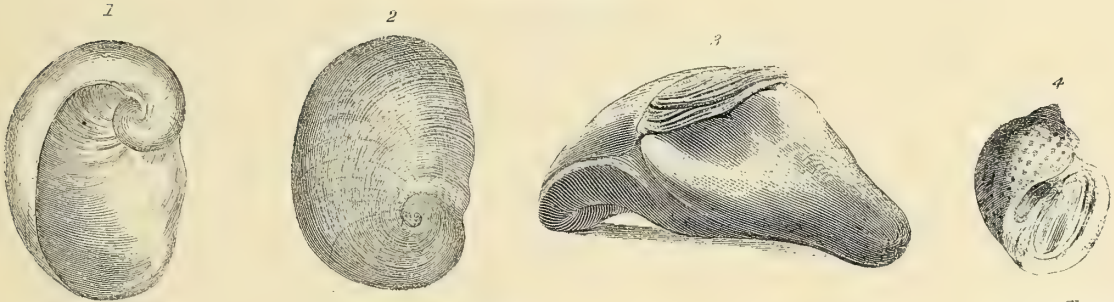
Family Lamellariidæ



1. 4 Ermea perspicua

Coriocella nigra

Family Naticidæ



1 3 Stomatia naticoides

Natica millepunctata  
and its operculum

Family Ampullariidæ



Pachystoma Solitum & its Operculum.

Family Melaniidæ



Bibex Melania Byrnesi

Family Cerithiidæ



Cerithium leve

Tympanotomus muricatus

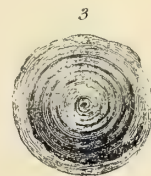
Family Littorinidæ



Littorina littorea



Oper. of N. I.



Oper. of Fuscum (Cerithium) Telescopum







Class Gasteropoda  
Sub class Ctenobranchiata

Order Pectinibranchiata

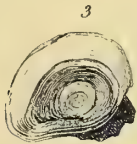
Family Viviparidæ



Viviparus Paludina Bengalensis



Viviparus Paludina costata



Viviparus Operculum of Paludina Vulgaris

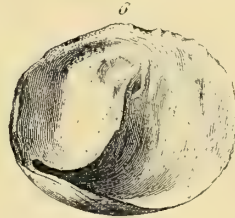
Family Calyptræidæ



1 2 Crepidula porcellana



3 4 Crepidula Unguiformis



Crepidula dilatata



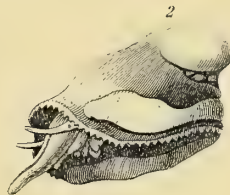
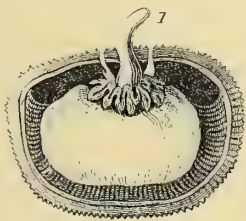
Calyptrum auriculata



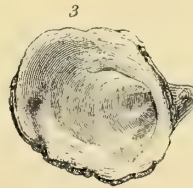
7 8 Calyptra esquestris



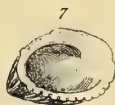
Family Capulidæ



1 4 Capulus ungaricus



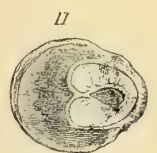
5 6 Hipponyx mirula



7 8 Amalthea australis



9-11 Hipponyx cornuocopia





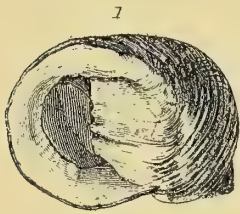




Class Gasteropoda  
Sub class Ctenobranchiata

Order Scutibranchiata

Family Neritidæ



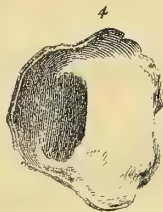
*Nerita undulata*



Articulated Oper of *N<sup>o</sup> 1*

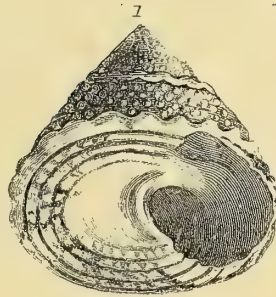


*Neritina Oweniana*

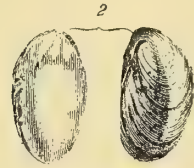


*Neritina curiosa*

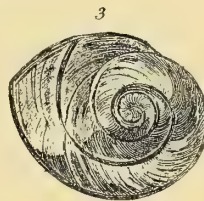
Family Turbinidæ



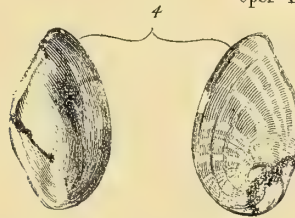
*Imperator Fibberulus*



Oper of *N<sup>o</sup> 1*



Oper Turbo

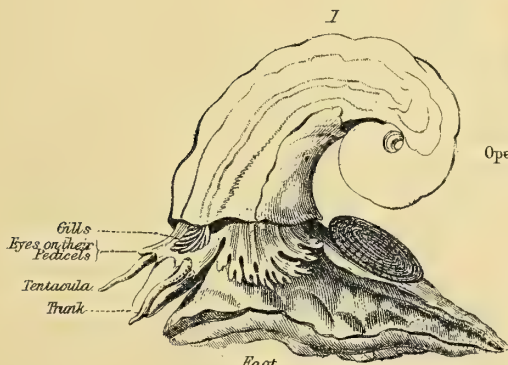


Oper Eutropia (*Phasianella*) *Australis*

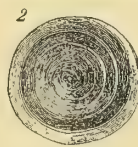


Oper Eutropia (*Phasianella*) *Australis*

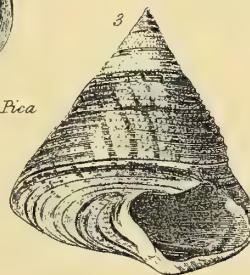
Family Trochidæ



Foot  
*Animal of Livona Fica*



Operculum of *Livona Fica*



*Zixiphinus Henslowii*



*Tegulapellis Serpentis*

Family Gadiniidæ



1 2 *Gadinia afra*









Class Gasteropoda  
Sub class Heterobranchiata

Order Pleurobranchiata

Family Amphustridæ



1 3 Bullinula Undata

Family Bullidæ

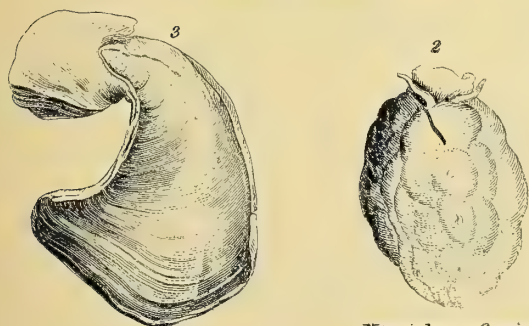


Akera carnosus

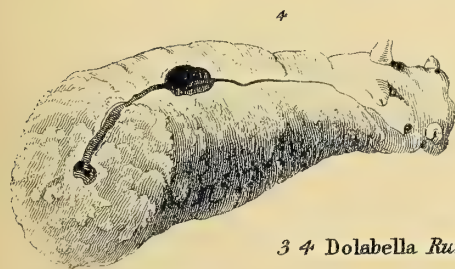
Family Aplysiidæ



Aplysia punctata

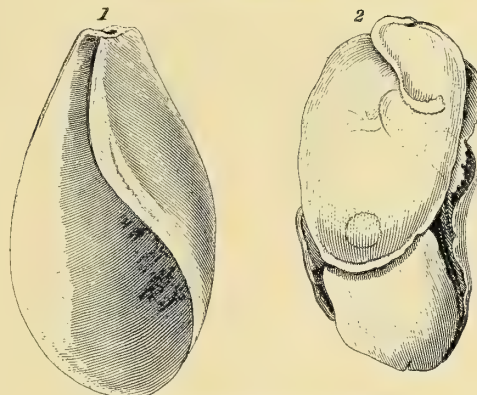


Notarchus Cuvieri



3 4 Dolabella Rumphii

Family Philinidæ

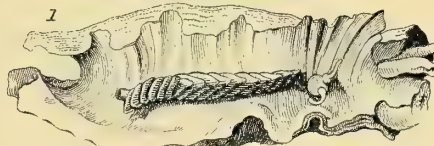


1 2 Scaphander lignarius



3 4 Phylina aperta.

Family Pleurobranchidæ



Pleurobranchus Peronii



2 3 Oscanius (Pleurobranchus) membranaceus





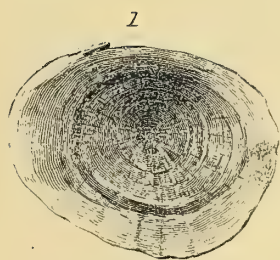




Class Gasteropoda  
Sub class Heterobranchiata

Order Pleurobranchiata

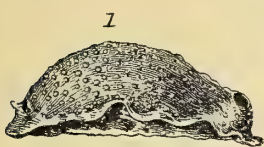
Family Umbrellidæ



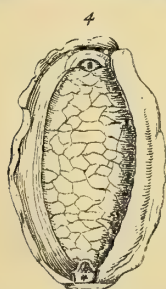
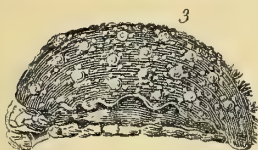
1 2. *Umbrella Umbellata*

Order Gymnobranchiata

Family Onchidoridæ

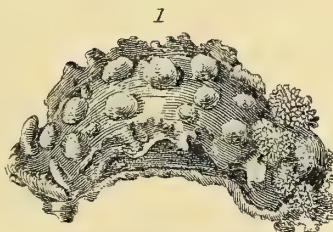


1-2 *Onchidoris Leachii*



3 4. *Onchidoris (Peromia) Mauritiana*

Family Dorididæ



*Hexabranchus laciniatus*

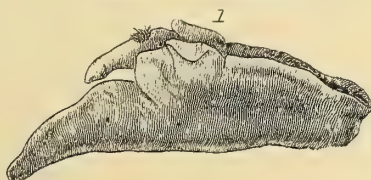


*Dendrodoris tuberculata*



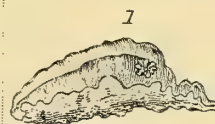
*Dendrodoris limbata*

Family Ceratosomidæ

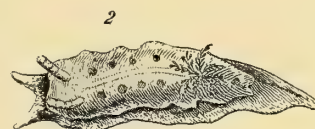


*Ceratosoma trilobata*

Family Goniadoridæ



*Goniadoris atromarginata*



*Goniadoris nodosa*



*Idalia quadricornis*





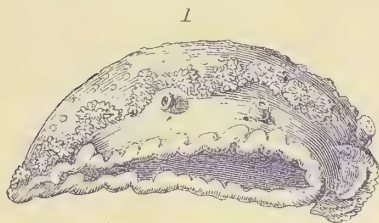


Class. Gasteropoda.

Sub-class. Heterobranchiata.

Order. Gymnobranchiata.

Family Tritoniidæ.



*Tritonia Hombergii.*

Family. Polyceratidæ.

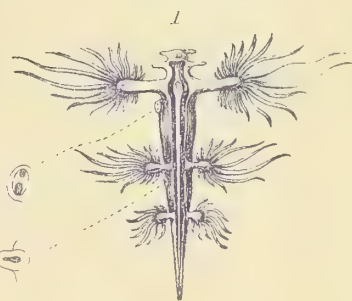


*Thecacera quadricornis.*



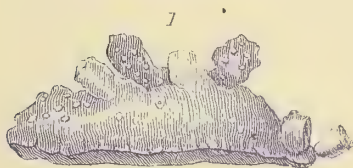
*Polycera cornuta.*

Family. Glucidæ.



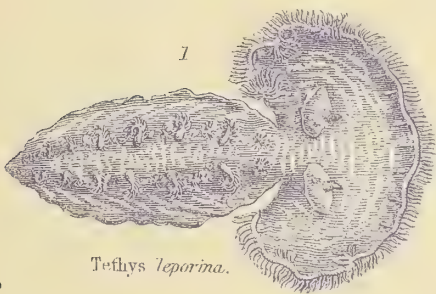
*Glaucus Atlanticus.*

Family. Scyllariidæ.



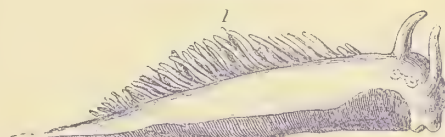
*Scyllæa pelagica.*

Family. Tethyidæ.



*Tethys leporina.*

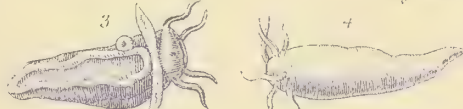
Family. Eolididæ.



*Flabellina ciceri.*



*Carolina peregrina.*



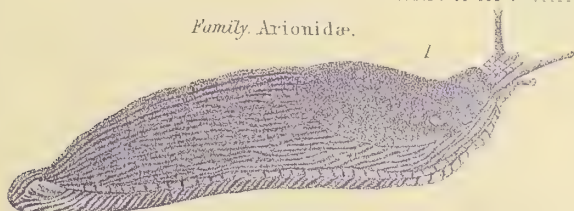
3-4 *Tergipes Lamarckii.*



*Laniogerus Ebnerti.*

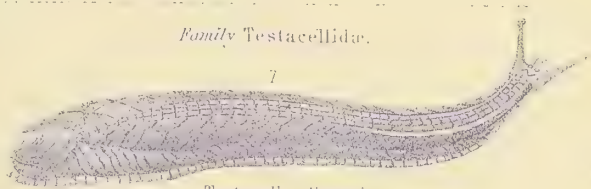
Order. Pulmonata.

Family. Arionidæ.



*Arion ater.*

Family Testacellidæ.



*Testacella Maugéi.*

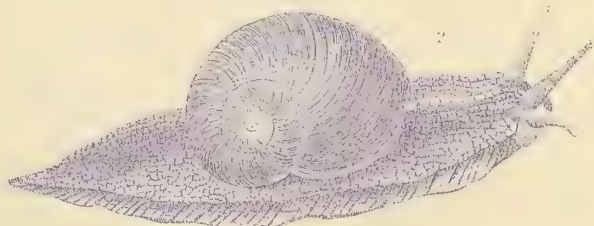
Family Helicidæ.



*Limax flavus.*



*Zonites Algira.*



*Helix naticoides.*

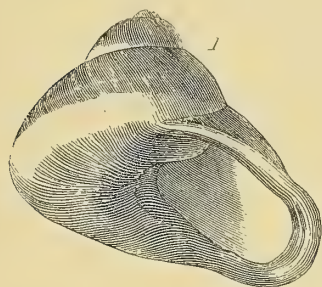






Class Gasteropoda  
Sub class Heterobranchiata

Order Pulmonata

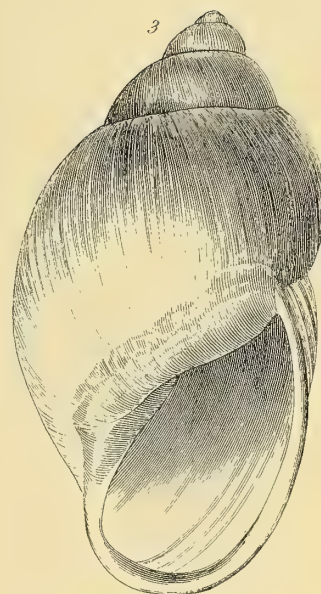


*Acavus Hemastoma*

Family Helicidae



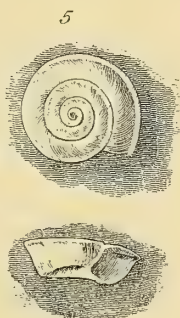
*Nux denticulata*



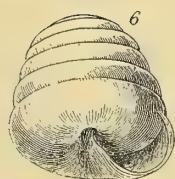
*Bulimus Ovatus*



*Iberus Carocolla*



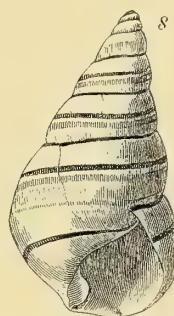
*Sheba albella*



*Sagda Epistylum*



*Clausilia Cærulea*



*Liguus (Achatina) Virginea*

Family Lymnæidæ



*Physa rivalis*

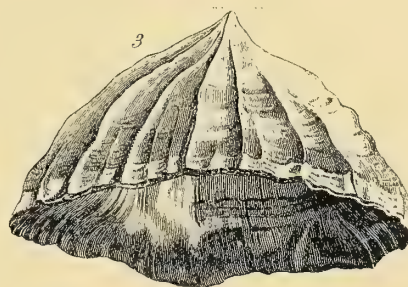


*Pupa Mumia*

Family Siphonariadæ



*Siphonaria radiata*



*Siphonaria grandis*



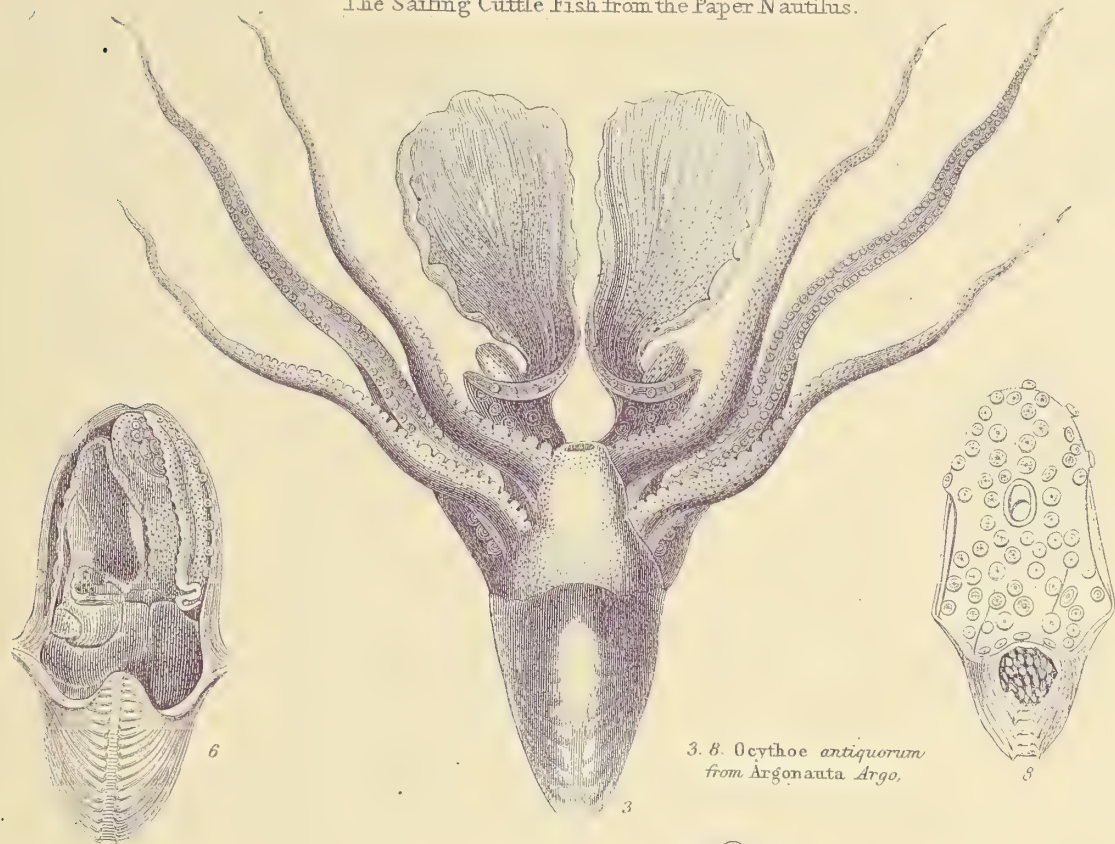




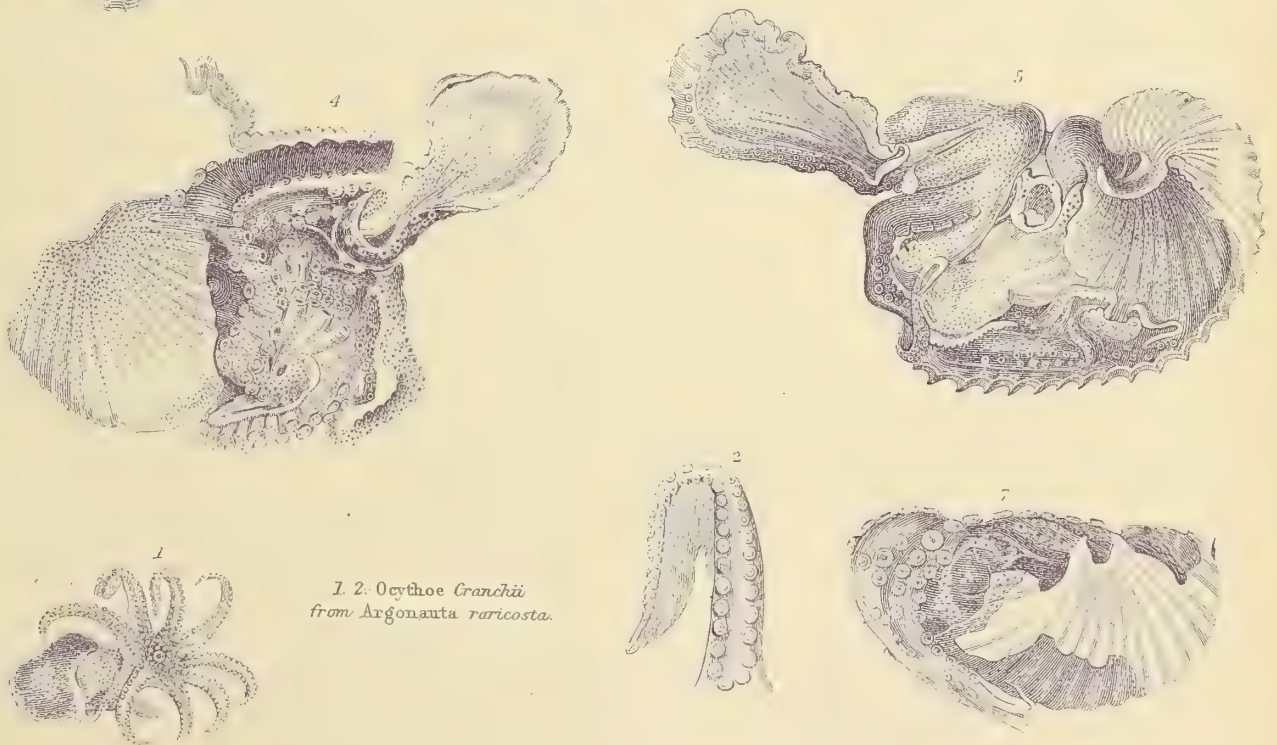
Class. Cephalopoda.

Order. Octopoda.

The Sailing Cuttle Fish from the Paper Nautilus.



3. 8. *Ocythoe antiquorum*  
from *Argonauta Argo*.



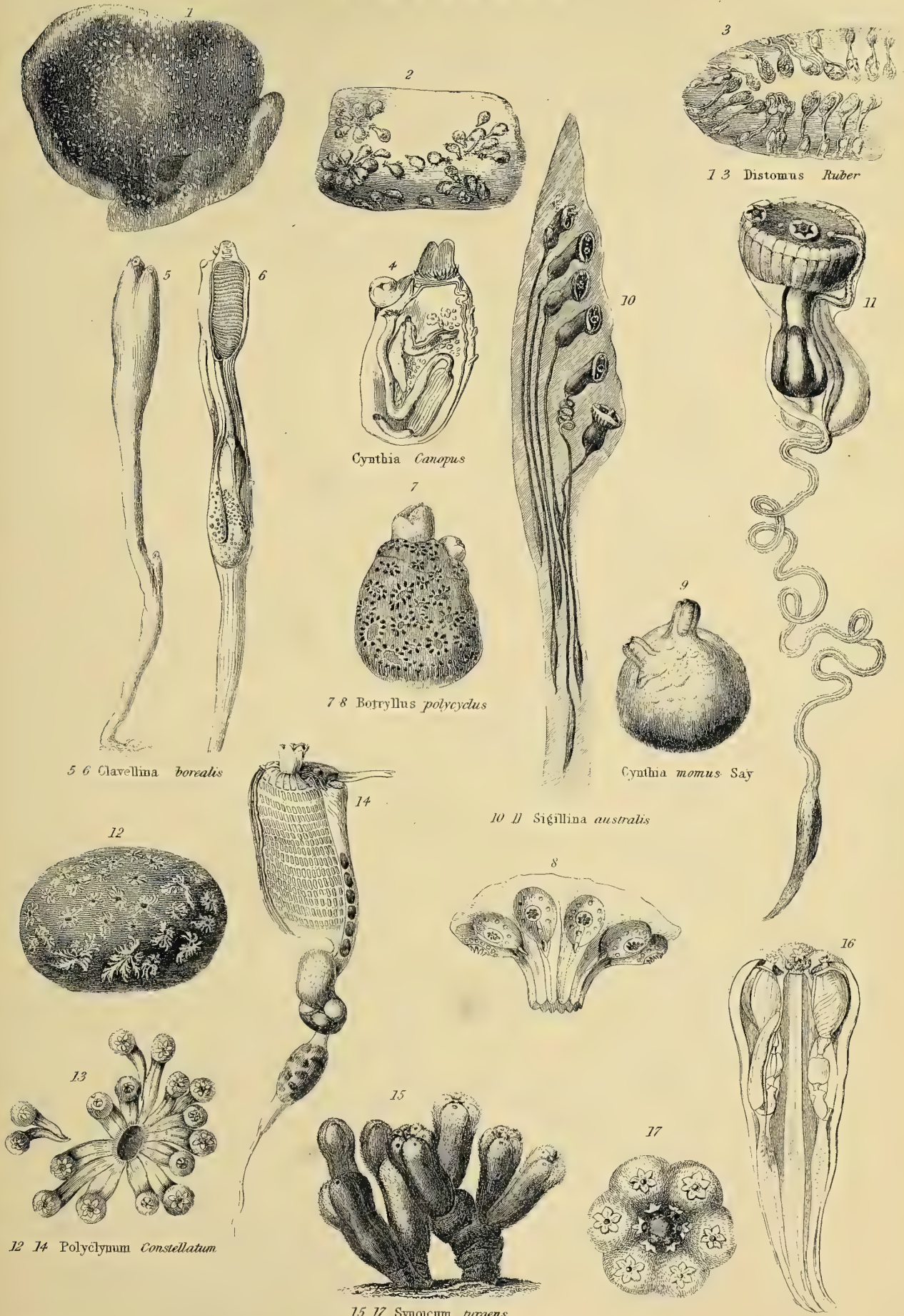
1. 2. *Ocythoe Granchii*  
from *Argonauta varicosta*.

1. The animal out of the shell. 2. the front arm showing the dilatation. 3. the animal expanded showing the 8 arms the anterior pair being dilated at the end & the sides of the body marked by the ribs of the shell. 4. 5: the animal partly contracted. 6. the animal quite contracted in the shell. 7. 8. the side & top view of the animal partly contracted in its shell; the shell broken at the keel to show the eggs.















# MOLLUSCA.

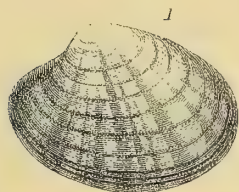
PLATE 10

Class. Conchifera.

Orders. Veneracea.

Sub-class. Siphonophora.

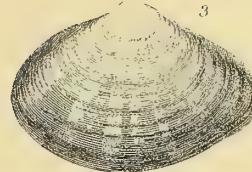
Pholadacea.



Veneridæ. — *Dione chione*.



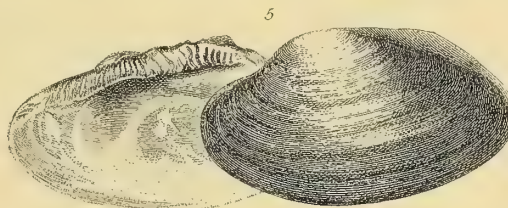
Tellimidæ. — *Tellina radiata*.



Mactridæ. — *Mactra stultorum*.



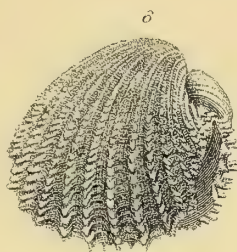
Chamidæ. — *Chama lazarus*.



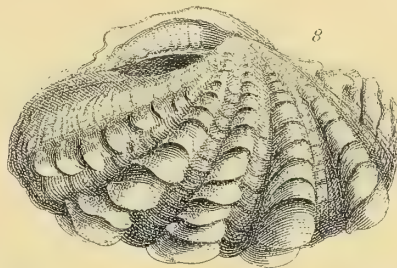
Murelidæ. — *Pleiodon ovatum*.



Lediidæ. — *Yoldia lanceolata*.



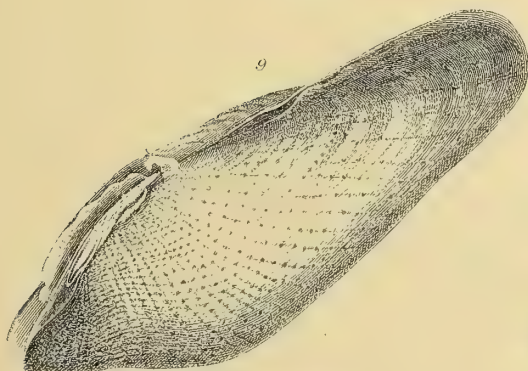
Cardiidæ. — *Cardium hians*.



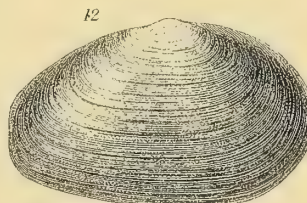
Tridacnidæ. — *Tridacna crocea*.



Gastrochamidæ. — *Aspergillum Delessertianum*.



Pholadidæ. — *Pholas dactylus*.



Myadæ. — *Mya arenaria*.



Solenidæ. — *Solen ensis*.







# MOLLUSCA.

PLATE II

Class. Conchifera. Sub-class. Asiphonophora.

— Brachiopoda.

— Pteropoda.

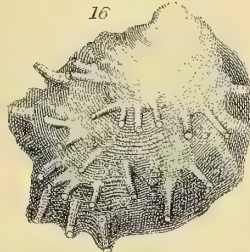
Orders Lasiacea.

— Unionacea

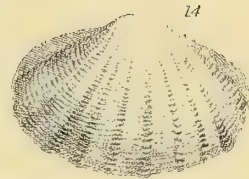
— Pectinacea.



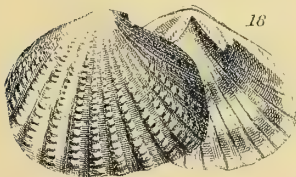
Solenomyidae. — *Solenomya Mediterranea.*



Lucinidae. — *Corbis fimbriata.*

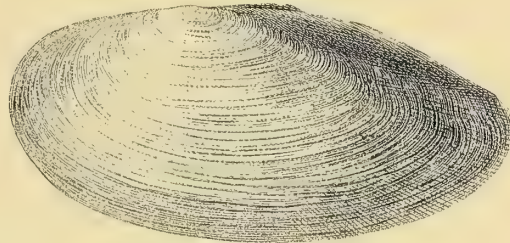


Trigoniidae.  
*Trigonia pectinata*

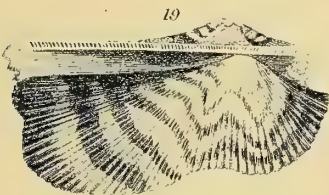


Mytilidae. — *Mytilus edulis.*

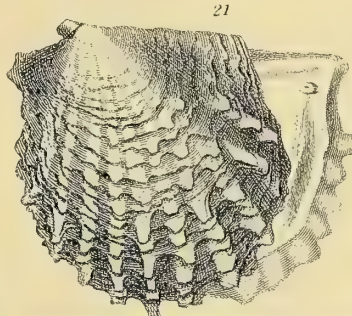
Atherinidae. — *Atheria Caillaudii.*



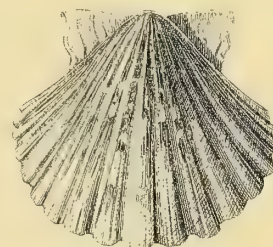
Unionidae. — *Anodonta cygnea.*



Arcaidae. — *Arca Noe.*



Aviculidae. — *Margarita margaritifera.*



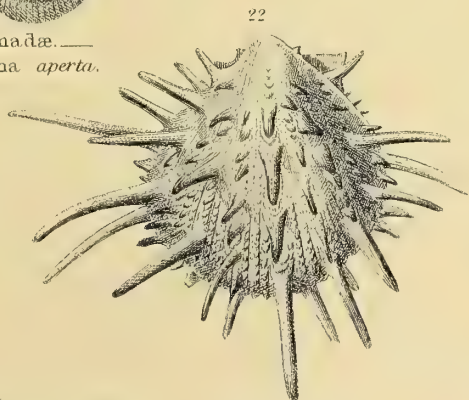
Pectenidae. — *Pecten Jacobaeus.*



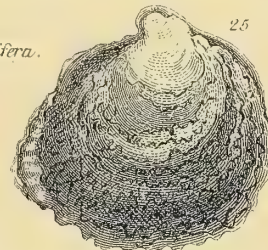
Pinnidae. — *Pinna squamosa.*



Linaidae. —  
*Lima aperta.*



Spondyliidae. — *Spondylus regius.*



Ostreidae. — *Ostrea edulis.*

Terebratulidae.



*Terebratula australis*



Lingulidae.  
*Lingula anatina*

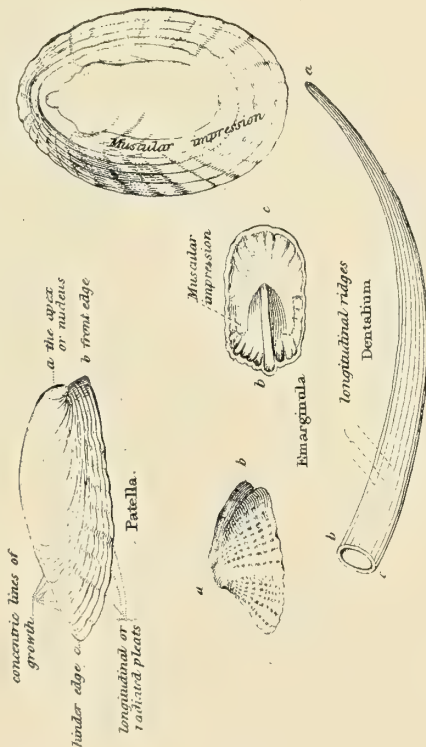
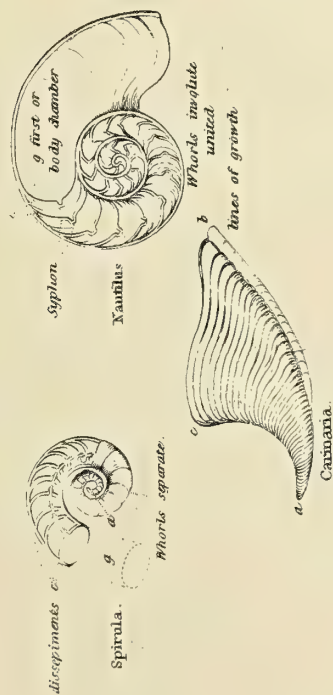
Fyalaeidae.  
*Cavolina tridentata*



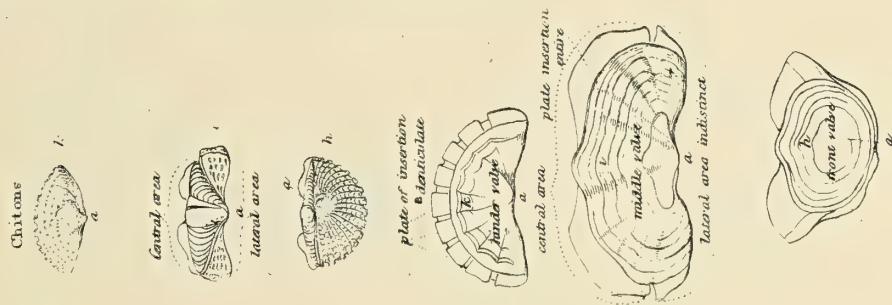




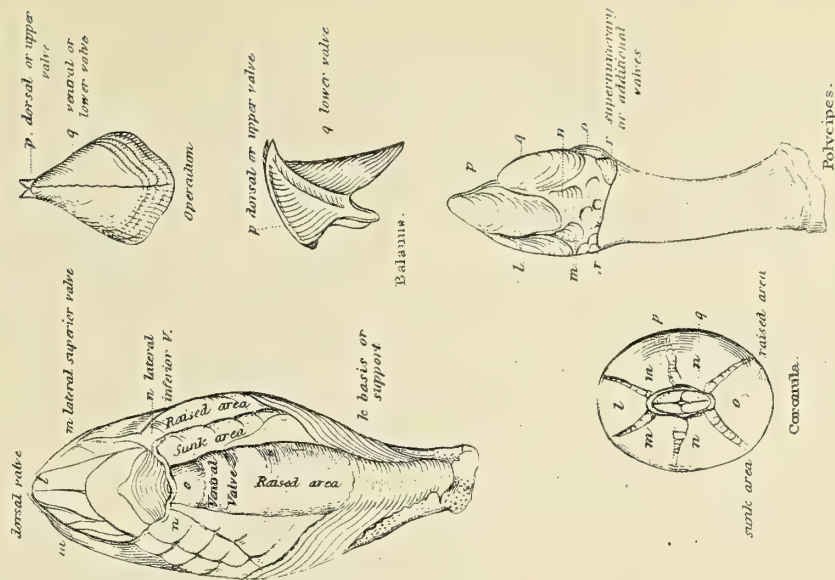
SYMMETRICAL UNIVALVES.



SERIAL MOLLUSCA.



CIRRIPEDES. (CRUSTACEA).



N.B. a. Summit or nucleus. b. Margin of mouth or Peristome. c. The inner or columella tip. d. Outer lip. e. Front edge. f. Hind edge of mouth. g. The hollow axis or umbilicus. h. Spire. i. First whorl. k. Body whorl. l. Suture. m. Muscular impression. n. Longitudinal slit. o. Columella. p. Dissepiment between the whorls. The Parts of the various shells bearing the same number or letter are similar.

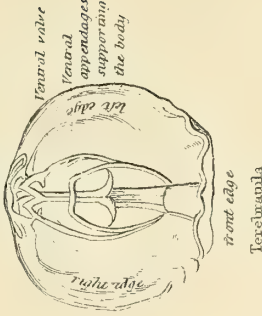
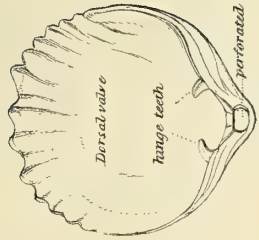
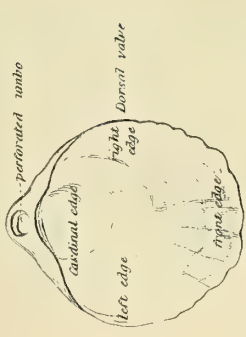
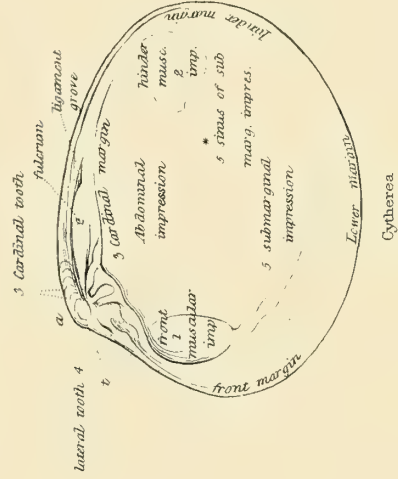
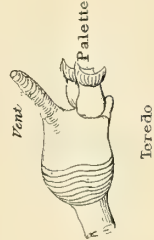
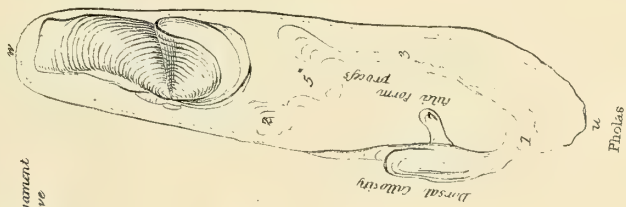
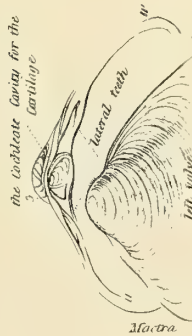
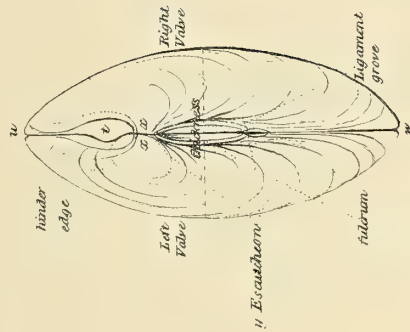
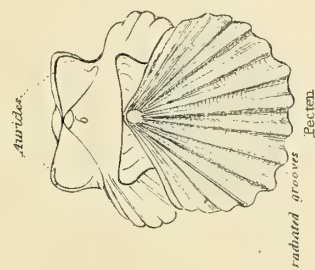
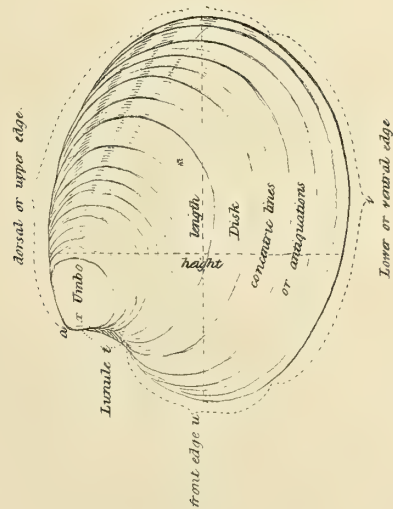






BIVALVE SHELLS.

LAMP-SHELLS.



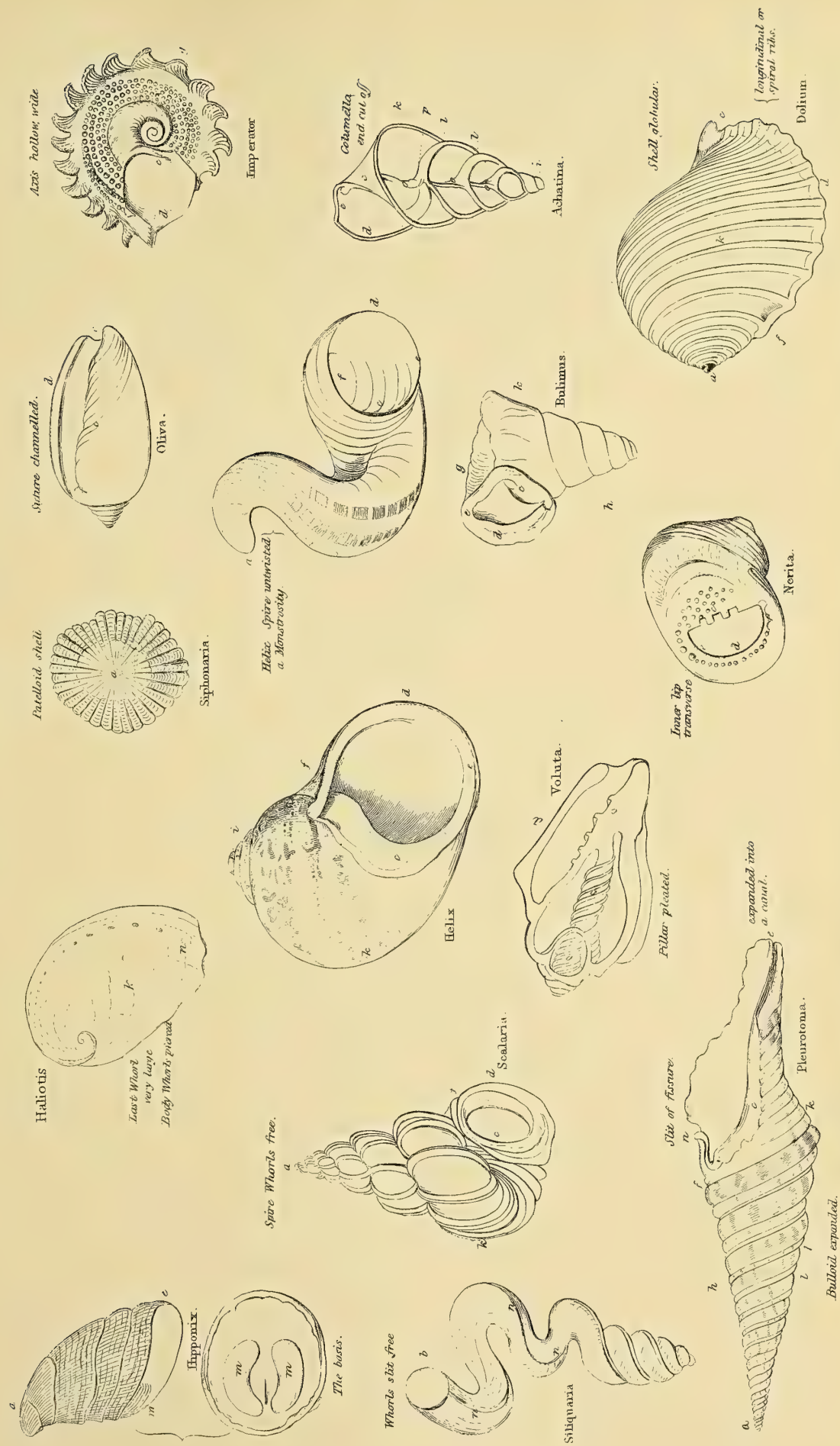
N.B. a. Summit or nucleus. b. Margin of mouth or Peristome. c. The inner or columella lip. d. Outer lip. e. Front edge. f. Hinder edge of mouth. g. The hollow iris or umbilicus. h. Spire. i. First whorl. k. Body whorl. l. Suture. m. Muscular impression. n. Longitudinal str. o. Columella. p. Dissepiment between the whorls. The Parts of the various shells having the same number or letter are similar.







## SPIRAL OR SUBSPIRAL SHELLS.



N.B. a. Summit or nucleus. b. Margin of mouth or Peristome. c. The inner or columella tip. d. Outer tip. e. Front edge of flange of mouth. f. The hollow axis or umbilicus. g. Spire. h. First whorl. i. Suture. m. Muscular impression. n. Longitudinal slit. o. Columella. p. Disjointment between the whorls. The Parts of the various shells having the same number or letter are similar.





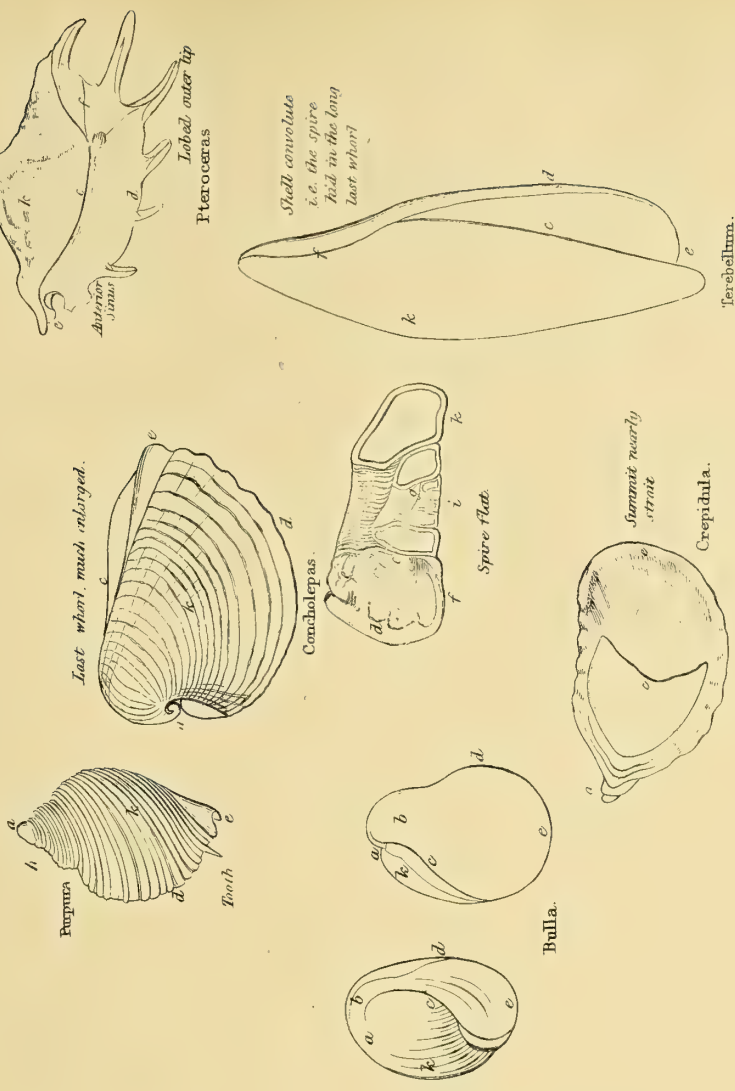


# TERMS USED IN CONCHOLGY.

PLATE 4.

## SPIRAL OR SUBSPIRAL SHELLS.

### THE OPERCULA OF SHELLS.



N.B. a. Summit or nucleus. b. Margin of mouth or Peristome. c. The inner or columella lip. d. Outer lip. e. Front edge. f. Inner edge of mouth. g. The hollow axis or umbilicus. h. Spire. i. First whorl. k. Body whorl. l. Square. m. Muscular impression. n. Longitudinal slit. o. Columella. p. Dissepiment between the whorls. The Parts of the various shells having the same number or letter are similar.

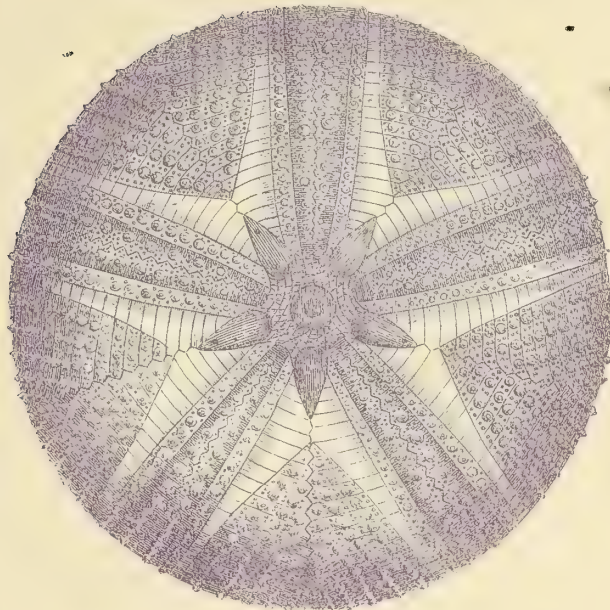






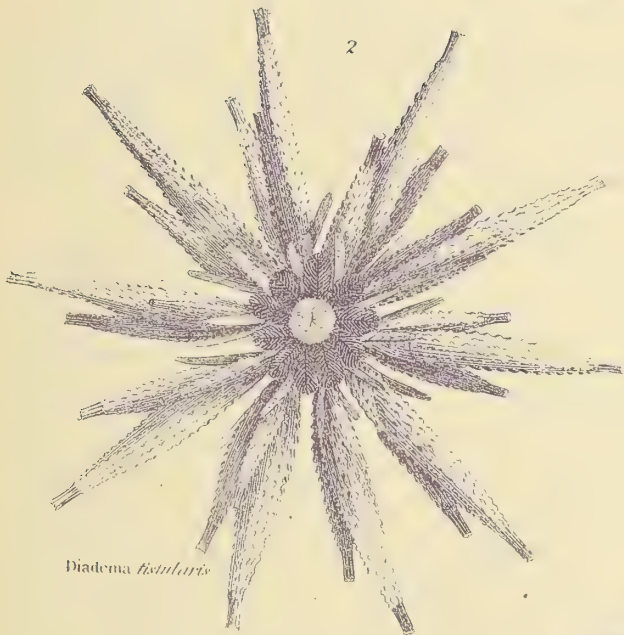
Family I. Cidaridæ.

1



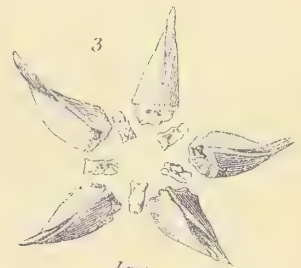
*Astropyga radiata*

2



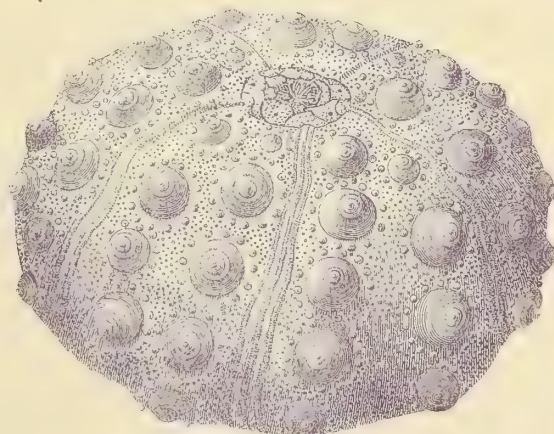
*Diadema fistularis*

3



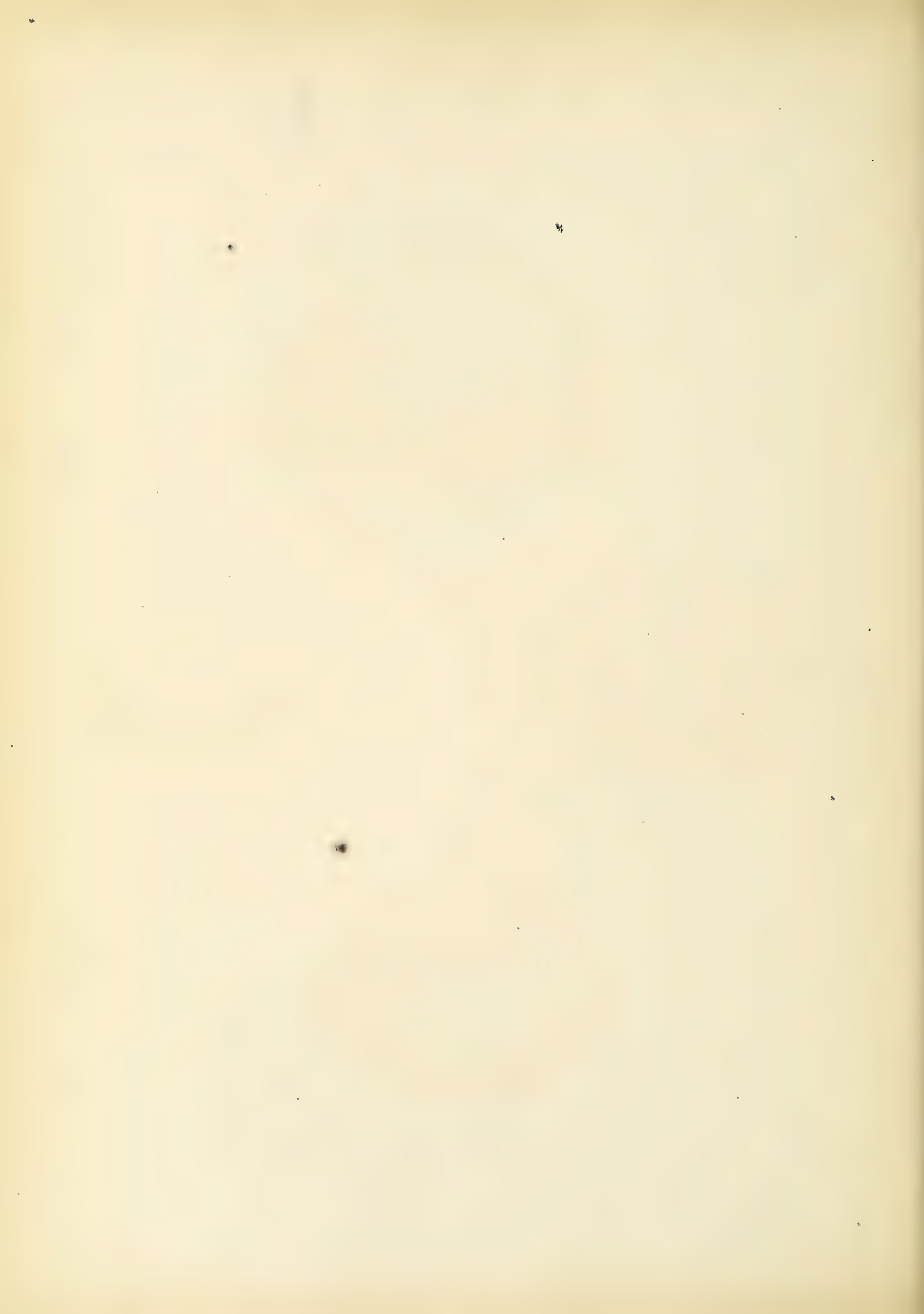
Jaws

4



*Cidaris imperialis*

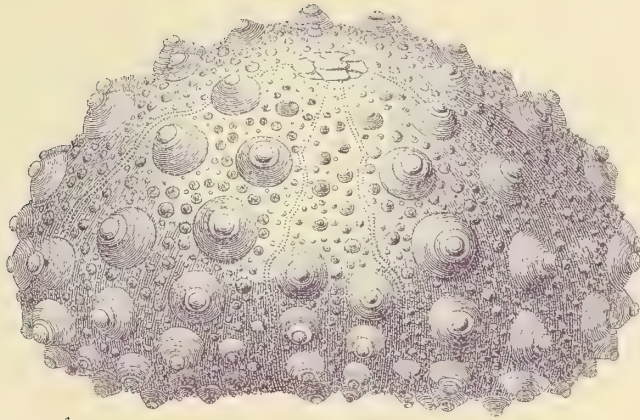






Family. II. Echinidæ.

1



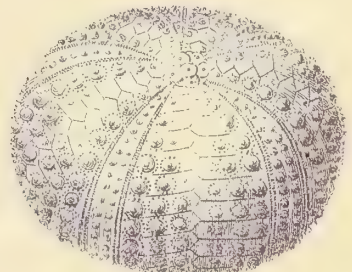
*Echinometra Mammillatus*

2



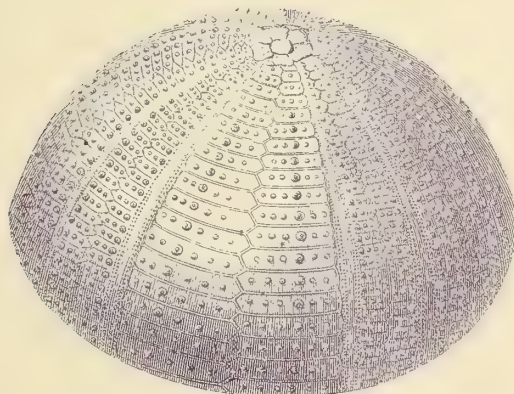
*Echinus miliaris*

3



*Echinus caryatis*

4



*Echinus Sardicus*





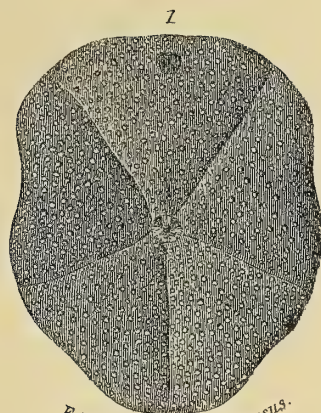


# ECHINODERMATA.

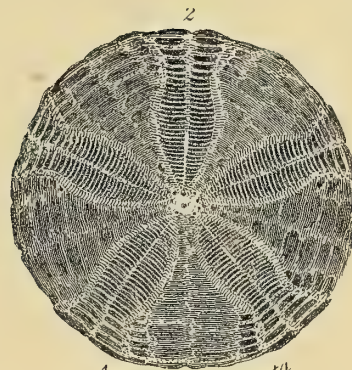
PLATE 3.

Order: Echinoidea.

Families { Scutellidæ.  
Echinolampasidæ.



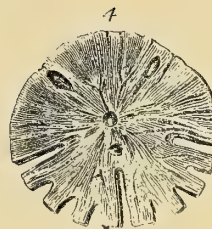
*Echinanthus Subdepressus.*



*Arachnoides Plucenta*



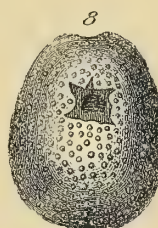
*Rotula Augusti.*



*Jaws of Echinanthus Rosaceus.*



*Jaws of Mellita hexapora.*



*Cassidulus Caribæarum.*







Order: Echinoidea.

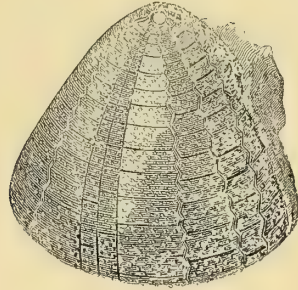
Families { Galeritidæ.  
Echinolampasidæ.  
Spatangidæ.

1



*Galerites albo-galerus.*

2



3

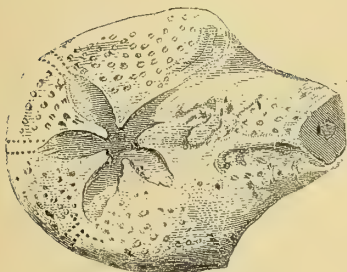


4



*Echinoneus minor.*

5



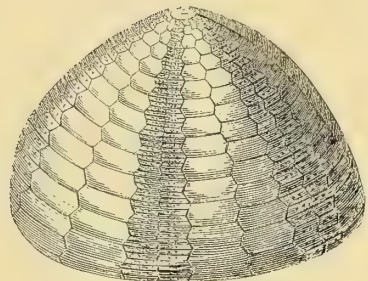
*Echinolampas koenigi.*

6



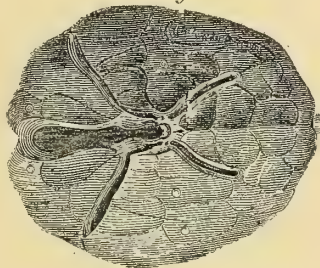
*Echinobrissus breynii.*

7



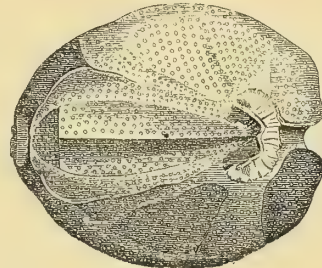
*Echinocorys ornatus.*

9

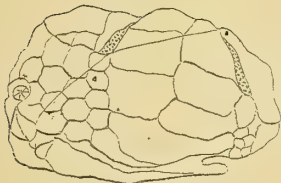


*Schizaster atropos.*

10



8

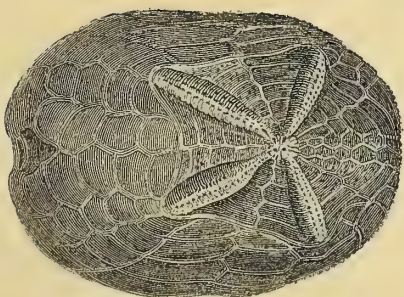


11



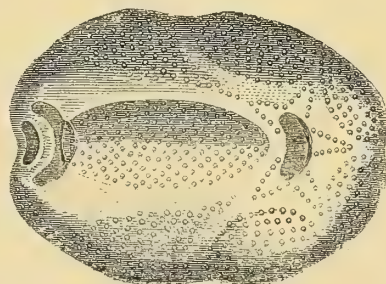
Tentacula of *Spatangus purpureus.*

12



*Brissus ventricosus.*

13







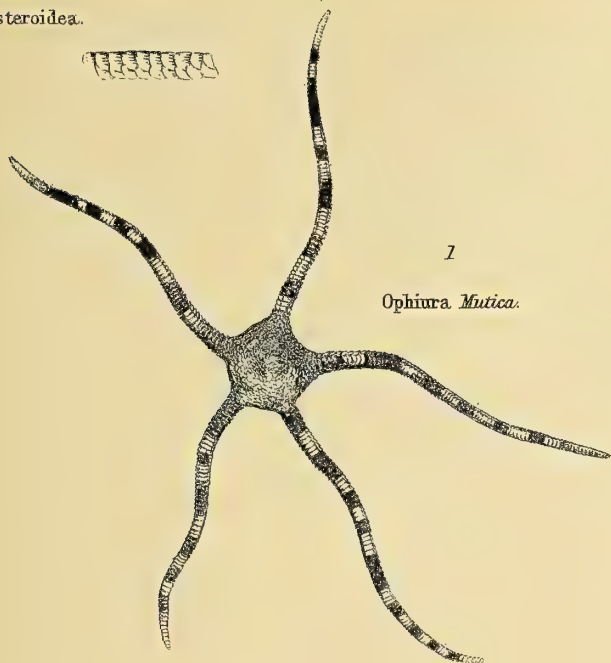
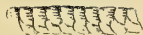


# ECHINODERMATA.

PLATE, 5.

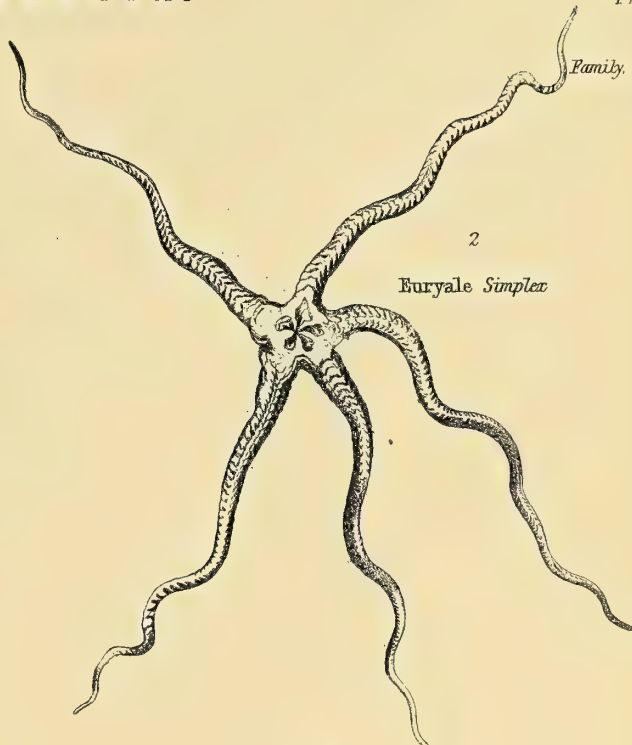
Order, Asteroidea.

Family, Ophiuridæ.



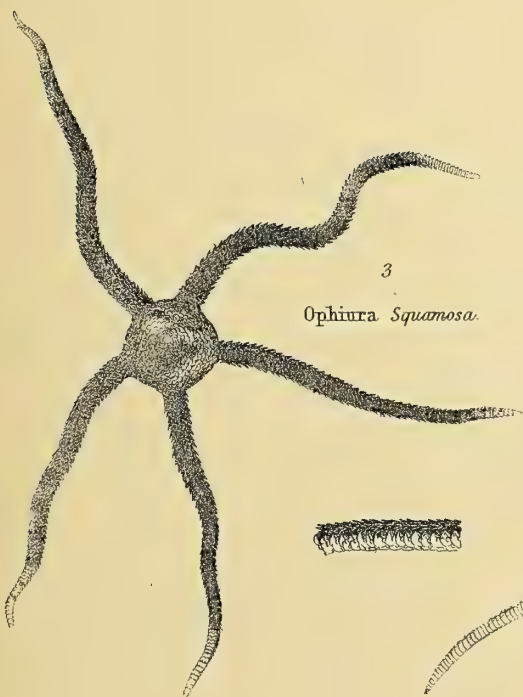
1

*Ophiura Mutica.*



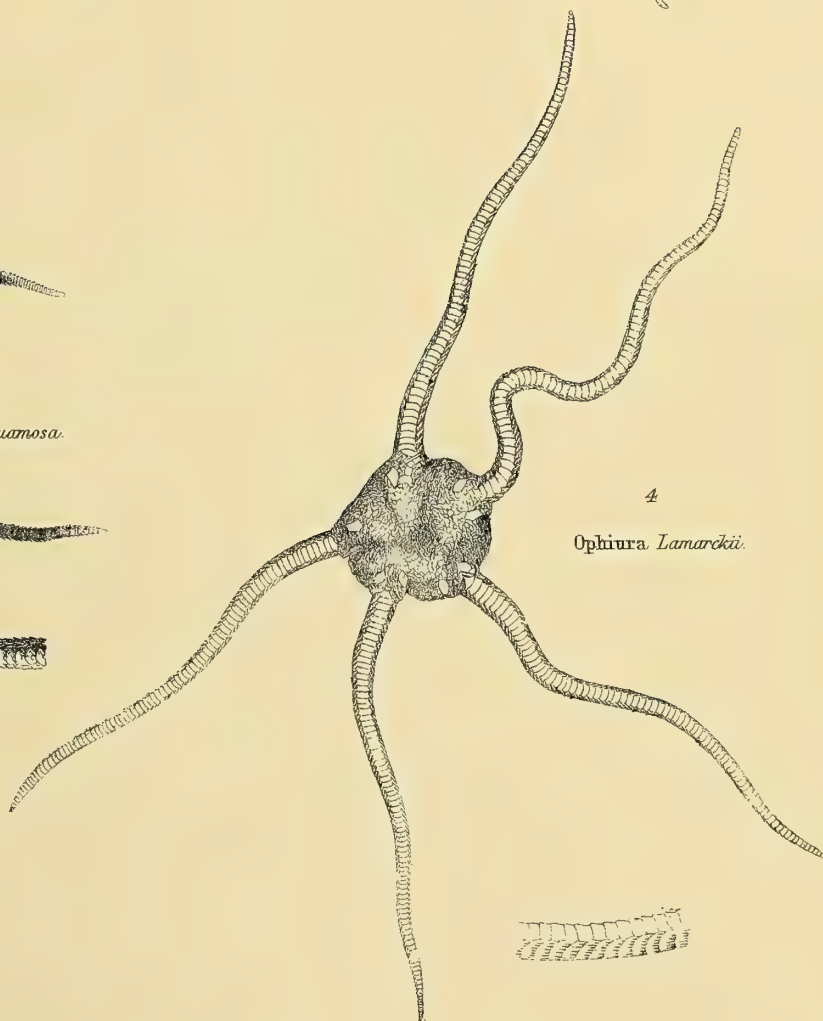
2

*Euryale Simplex*



3

*Ophiura Squamosa.*



4

*Ophiura Lamarckii.*







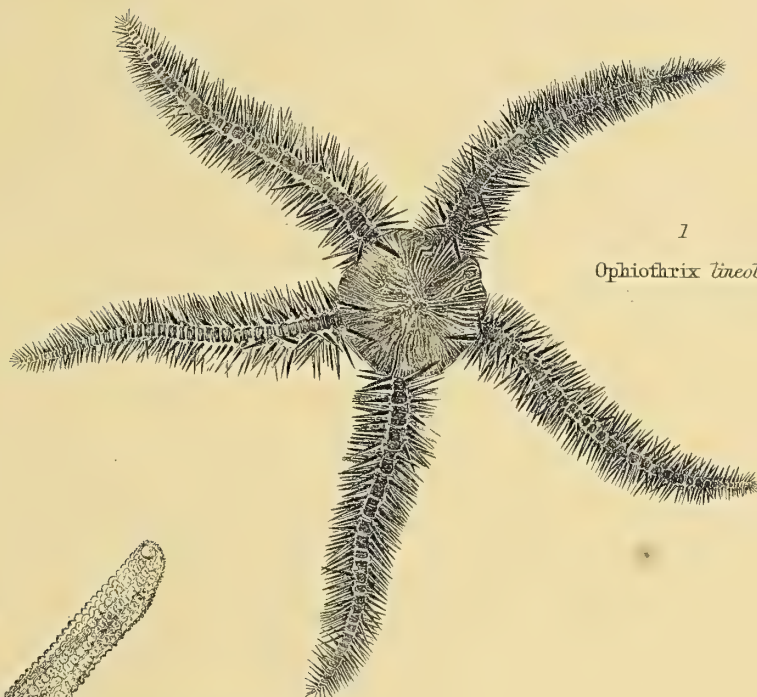


# ECHINODERMATA.

PLATE 6.

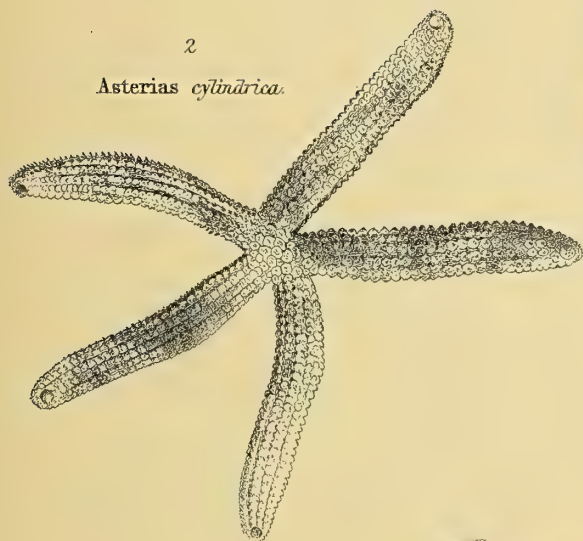
Order: Asteroidea.

Families {  
Ophiuridæ.  
Asteriidae  
Pentacerotidæ



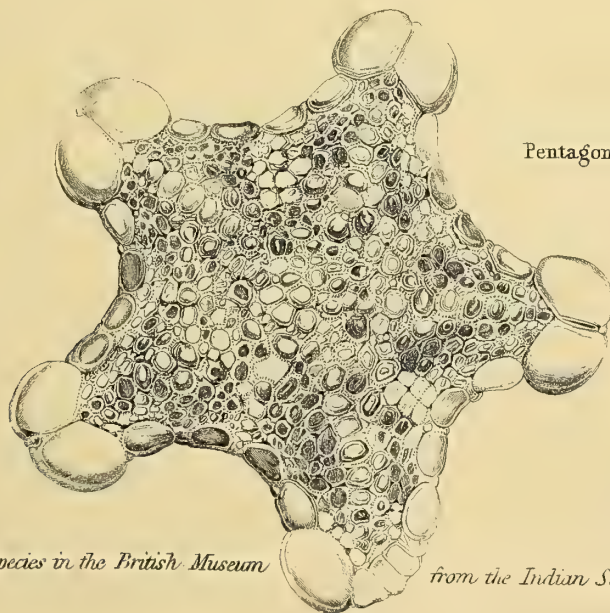
1

*Ophiothrix lineolata.*



2

*Asterias cylindrica.*



3

*Pentagonaster pulchellus*

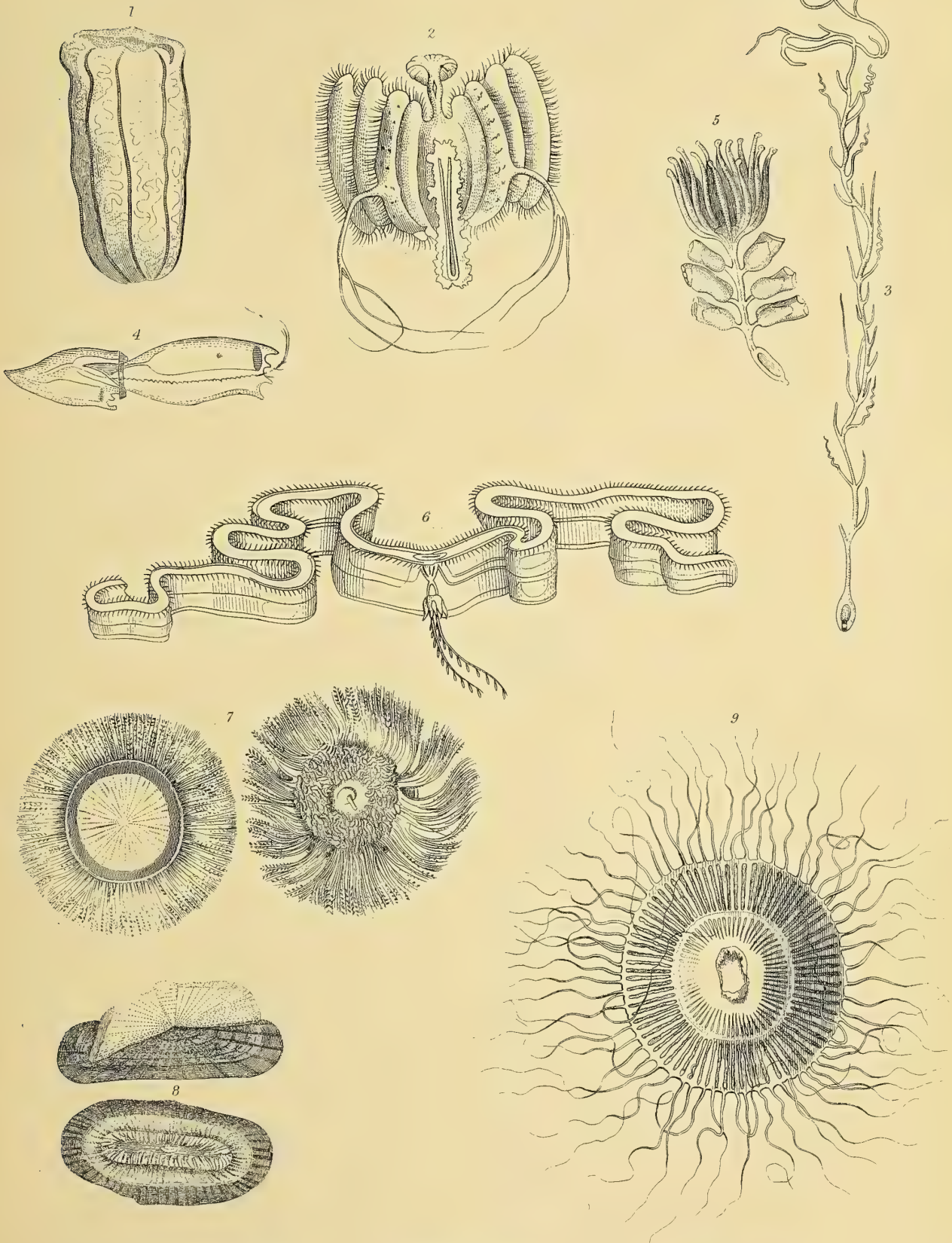
All new Species in the British Museum

from the Indian Seas.









1 *Beroë macrostoma*.

2 *Janira hexagona*.

3 *Rhizophysa planostoma*.

4 *Diphyes Boryi*.

5 *Physophora disticha*.

6 *Cestum Veneris*.

7 *Porpita gigantea*.

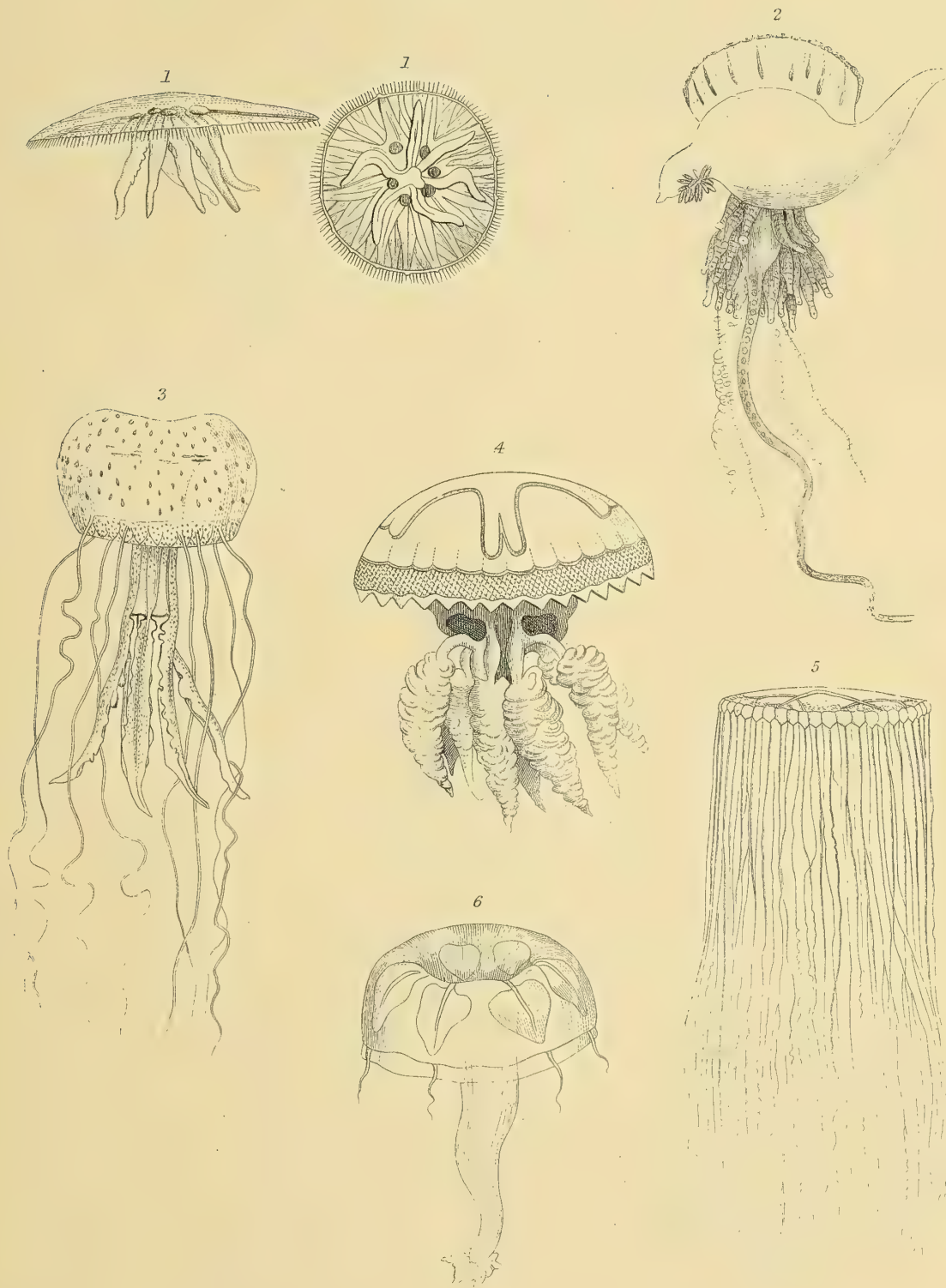
8 *Velella cyanea*.

9 *Equorea Forskaelina*.









1 *Cyanea aurita*.

3 *Pelagia planospira*.

5 *Berenice rosea*.

2 *Physalia megalista*.

4 *Rhizostoma Cuvierii*.

6 *Geronya-hetaphylla*.





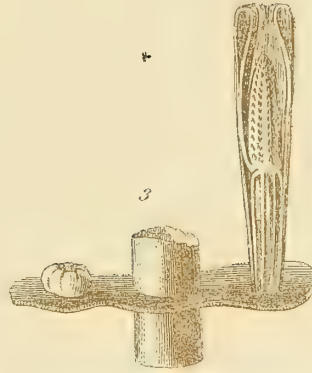


# POLYPS.

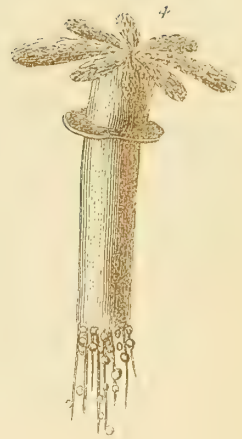
PLATE I



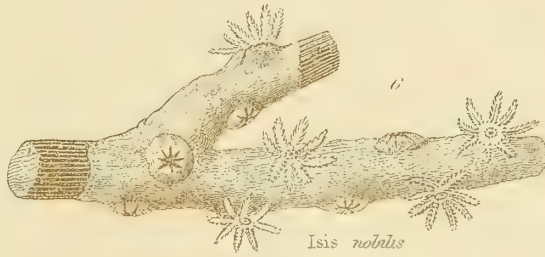
*Corallaria rugosa*



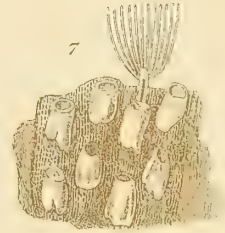
2-4 *Tubipora musica*



*Tubularia Clavata*



*Isis nobilis*



*Cellepora hyalina*



*Bicellaria fastigiata*



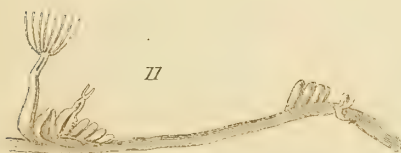
*Gorgonia patula*



10



*Millepora spongites*



*Seriataria longidens*



*Renilla Americana*









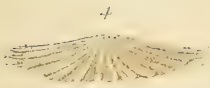
*Lacmedea dubitosa*



*Dynamena pumila*



*Meandrina cerebriformis*



4, 5 *Astrea ananas*



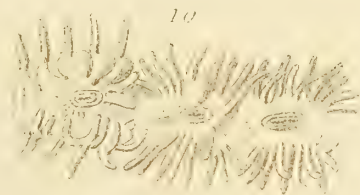
6, 7 *Caryophyllia solitaria*



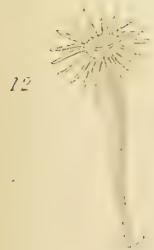
*Oculina varicosa*



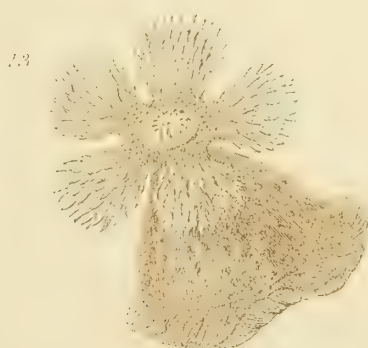
*Oculina varicosa*



10, 11 *Meandrina limosa*



*Zoanthus ellisi*



*Actinia dianthus*



*Plumularia secundaria*



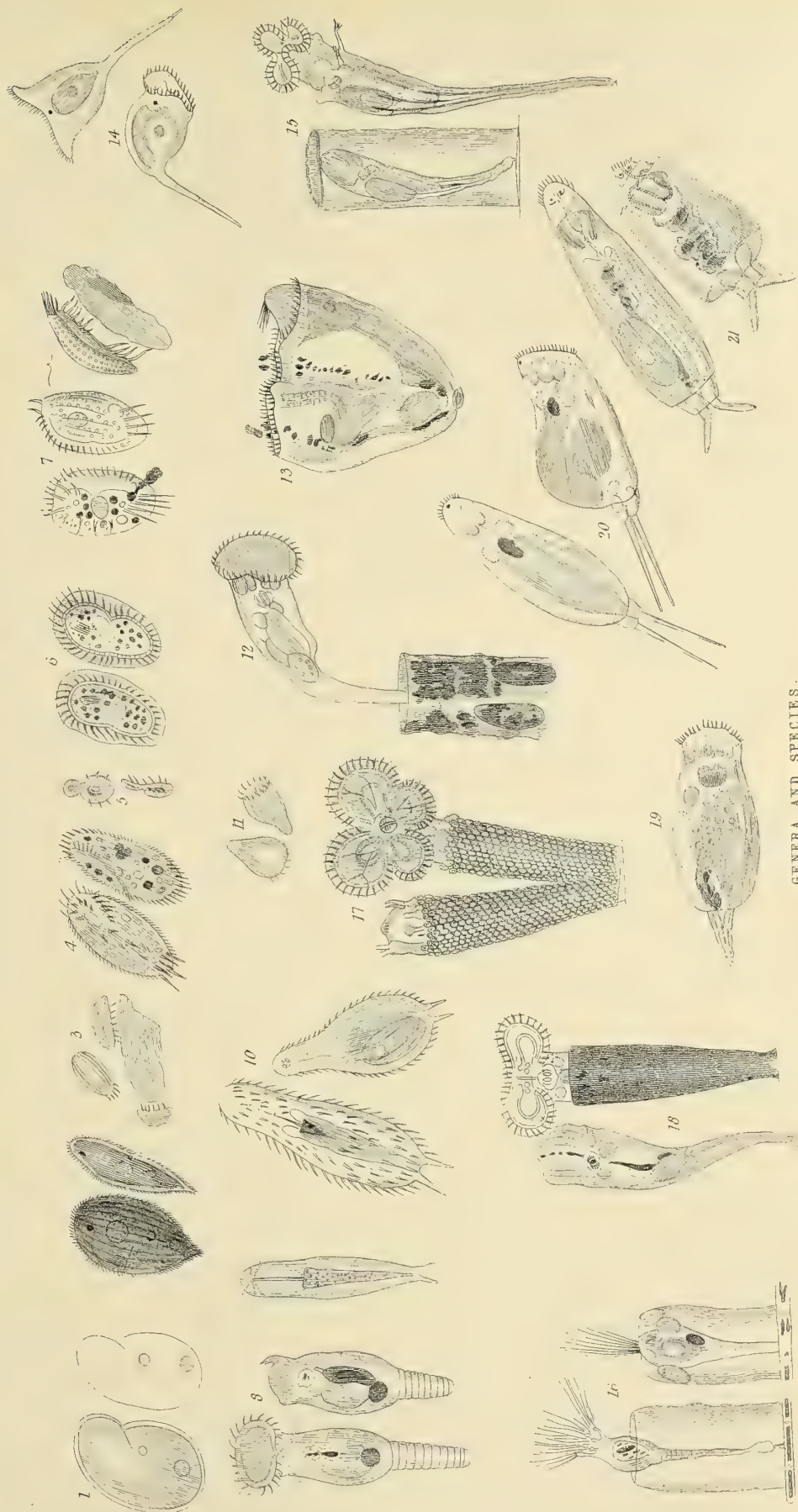




Infusoria, 1 to 7.  
Rotatoria, 8 to 21.

# INFUSORIA & ROTATORIA.

PLATE I.



## GENERA AND SPECIES.

- |                                   |                                     |                                     |
|-----------------------------------|-------------------------------------|-------------------------------------|
| 1. Kolpoda, <i>Rem.</i>           | 6. Chlamidodon, <i>Mucosyne</i>     | 16. Floscularia, <i>Ornatu.</i>     |
| 2. Ophryoglena, <i>Amanata.</i>   | 7. Euplores, <i>Claron</i>          | 17. Melicerta, <i>Ringens.</i>      |
| 3. Oxytricha, <i>Gunda.</i>       | 8. Pygura, <i>Melaria</i>           | 18. Linnias, <i>Ceratophylli.</i>   |
| 4. Stylonychia, <i>Fusculata</i>  | 9. Ichthyoderm, <i>Polaru.</i>      | 19. Hydatina, <i>Brachydactyla.</i> |
| 5. Discocephalus, <i>Rotariu.</i> | 10. Chaetonotus, <i>Mazanus.</i>    | 20. Furcularia, <i>Gibba.</i>       |
|                                   | 11. Microcodon, <i>Clarus</i>       |                                     |
|                                   | 12. Glanophora, <i>Trochus.</i>     |                                     |
|                                   | 13. Cyphonantes, <i>Compressus.</i> |                                     |
|                                   | 14. Tubicolina, <i>Najas.</i>       |                                     |
|                                   | 15. Higlina, <i>Grandis.</i>        |                                     |



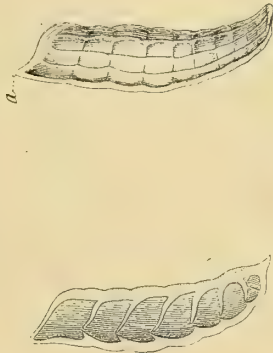




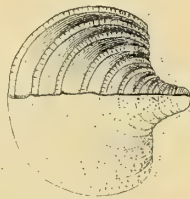
Family. Nodosoriadae.



1. *Nodosaria levigata*.



2. *Marginulina raphanus*.



3. *Pavonina flabelliformis*.

Family. Textulariadae.

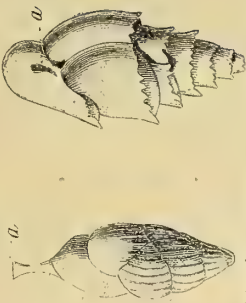


4. *Polymorphina communis*.



5. *Textularia aciculata*.

Family. Rotaliadae.

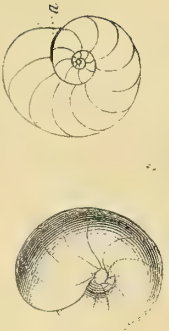
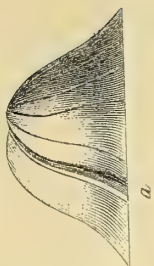


6. *Uvigerina pygmaea*.

7. *Rulimina Marginata*.



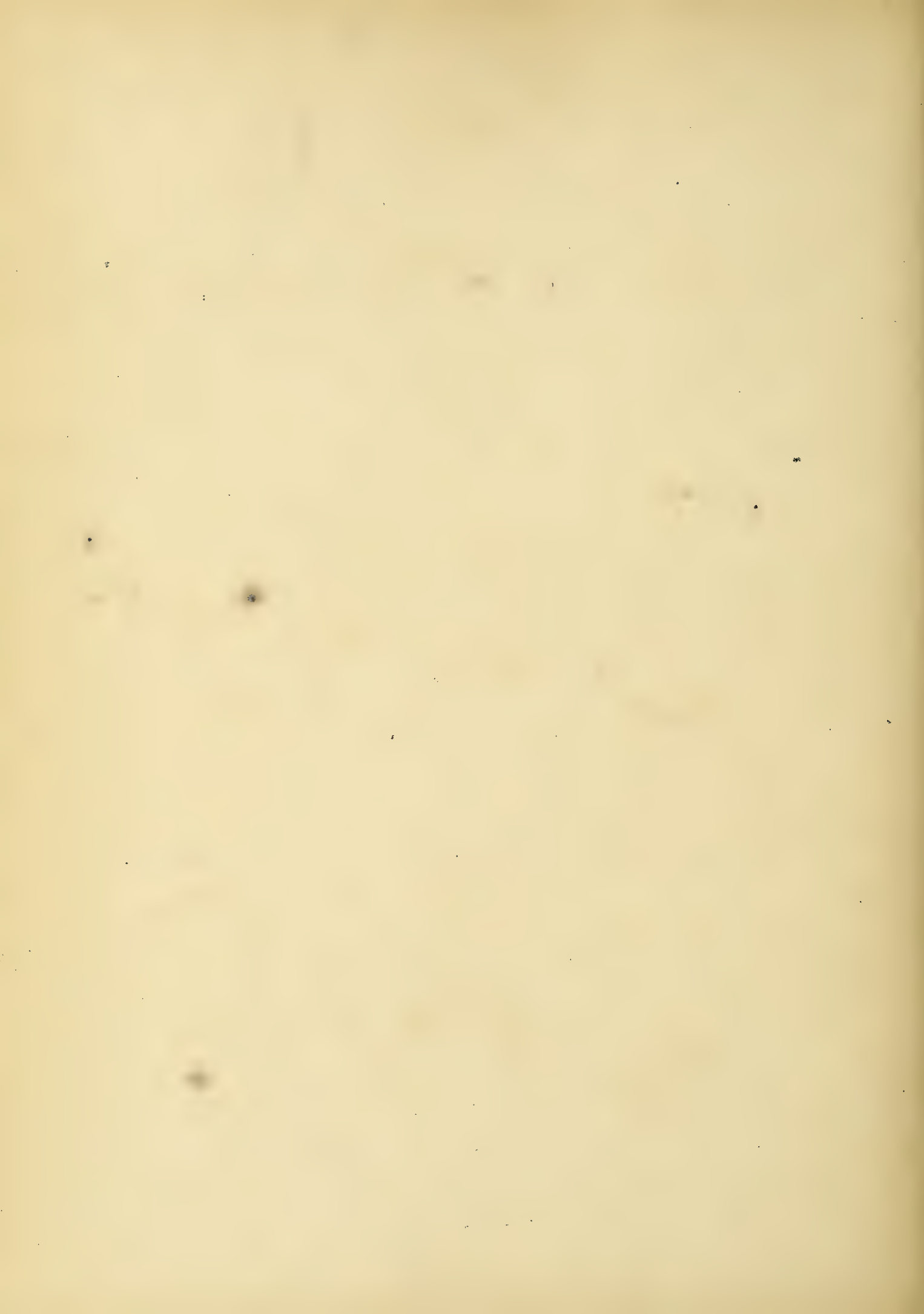
8. *Rosalina globularis*.



9. *Truncatulina refulgens*.

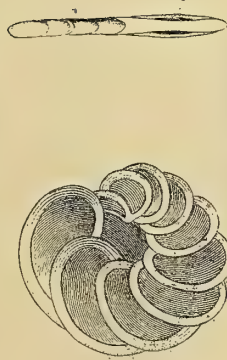
N.B. All these shells being very small, they are all more or less magnified in all the figures. a. represents the mouth and the dotted lines represent the theoretical form of the cell.



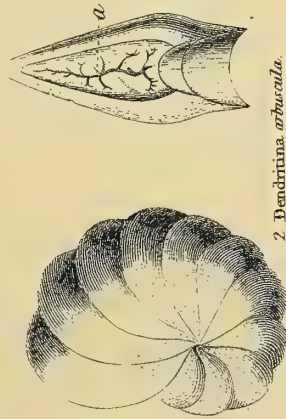




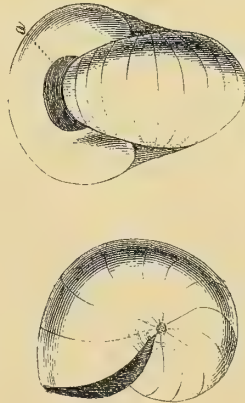
Family, Polystomelladae



1. *Planulina Ariminensis*.

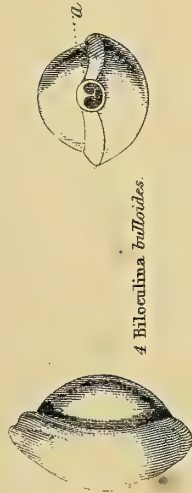


2. *Dendritina orbicula*.

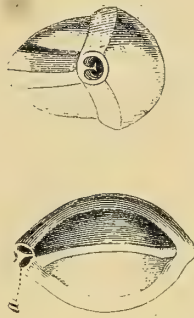


3. *Nonionina umbilicata*.

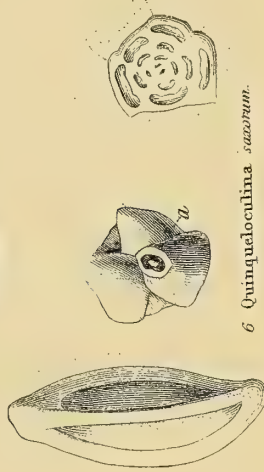
Family, Miliolidae.



4. *Biloculina ballioides*.



5. *Biloculina trigonula*.

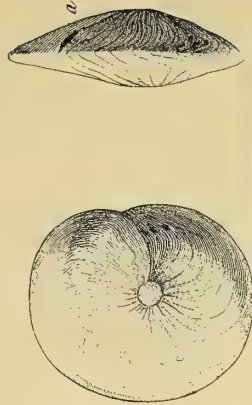


6. *Quinqueloculina saxorum*.

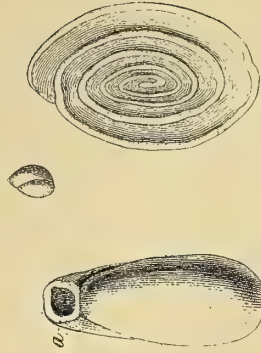
Family, Orbiculinae.



7. *Heterogystina depressa*.



8. *Amphigystina (Lugyria)*.



9. *Ebularia discalibres*.

N.B. All these shells being very small they are all more or less magnified in all the figures. *a* represents the mouth and the dotted lines represent the theoretical form of the cells.



























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